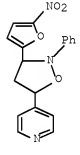
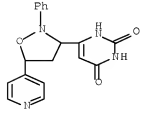
```
* * * * * * * * *   Welcome to STN International   * * * * * * * * * *
* * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 14:21:16 ON 06 OCT 2009

=> file reg
=> Uploading C:\Program Files\Stnexp\Queries\Queries\10574612.str
```

```
chain nodes :
6  7
ring nodes :
1  2  3  4  5
chain bonds :
2-6  5-7
ring bonds :
1-2  1-5  2-3  3-4  4-5
exact/norm bonds :
1-2  1-5  2-3  2-6  3-4  4-5  5-7
isolated ring systems :
containing 1 :


G1:O,S

Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:Atom
Generic attributes :
6:
Saturation             : Unsaturated
Number of Carbon Atoms : less than 7
Type of Ring System    : Monocyclic
7:
Saturation             : Unsaturated
Number of Carbon Atoms : less than 7
Type of Ring System    : Monocyclic

=> s l1 sam
L2           18 SEA SSS SAM L1

=> s l1 full
L3         6150 SEA SSS FUL L1

=> file caplus

=> s l3
L4          97 L3
```

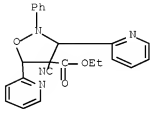
```
=> s l4 and pd< oct 2002
      22869643 PD< OCT 2002
                 (PD<20021000)
L5          53 L4 AND PD< OCT 2002

=> dis l5 1-53 bib abs hitstr

L5   ANSWER 1 OF 53  CAPLUS  COPYRIGHT 2009 ACS on STN
AN   2008:1383618  CAPLUS  Full-text
DN   149:575973
TI   The [3 + 2] nitrone-olefin cycloaddition reaction
AU   Confalone, Pat N.; Huie, Edward M.
CS   E. I. du Pont de Nemours and Co., Wilmington, DE, USA
SO   Organic Reactions (Hoboken, NJ, United States) (1988), 36, No
     pp. given
     CODEN: ORHNBA
     URL: http://www3.interscience.wiley.com/cgi-bin/mrwhome/107610747/HOME
PB   John Wiley & Sons, Inc.
DT   Journal; General Review; (online computer file)
LA   English
OS   CASREACT 149:575973
AB   A review of the article The [3 + 2] nitrone-olefin cycloaddn. reaction.
IT   21746-10-1P   32465-88-6P   68752-88-5P
     68752-92-1P   1071032-23-9P   1071120-27-8P
     1071120-37-0P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (The [3 + 2] nitrone-olefin cycloaddn. reaction)
RN   21746-10-1  CAPLUS
CN   Pyridine, 4-[3-(5-nitro-2-furanyl)-2-phenyl-5-isoxazolidinyl]-  (CA INDEX
     NAME)
```



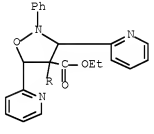
```
RN   32465-88-6  CAPLUS
CN   2,4(1H,3H)-Pyrimidinedione, 6-[2-phenyl-5-(4-pyridinyl)-3-isoxazolidinyl]-
       (CA INDEX NAME)
```



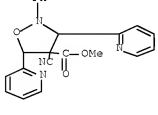
RN 68752-88-5 CAPLUS
CN 4-Isoxazolidinecarboxylic acid, 4-cyano-2-phenyl-3,5-di-2-pyridinyl-, ethyl ester (CA INDEX NAME)



RN 68752-92-1 CAPLUS
CN 4,4-Isoxazolidinedicarboxylic acid, 2-phenyl-3,5-di-2-pyridinyl-, 4,4-diethyl ester (CA INDEX NAME)

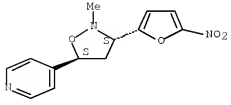


RN 1071032-23-9 CAPLUS
CN 4-Isoxazolidinecarboxylic acid, 4-cyano-2-phenyl-3,5-di-2-pyridinyl-, methyl ester (CA INDEX NAME)



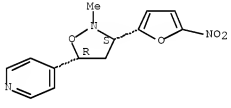
RN 1071120-27-8 CAPLUS
CN Pyridine, 4-[(3R,5R)-2-methyl-3-(5-nitro-2-furanyl)-5-isoxazolidinyl]-, rel- (CA INDEX NAME)

Relative stereochemistry.

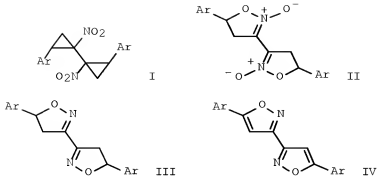


RN 1071120-37-0 CAPLUS
CN Pyridine, 4-[(3R,5S)-2-methyl-3-(5-nitro-2-furanyl)-5-isoxazolidinyl]-, rel- (CA INDEX NAME)

Relative stereochemistry.



L5 ANSWER 2 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2003:159868 CAPLUS Full-text
DN 139:364853
TI Access to 5,5'-diaryl substituted 4,5,4',5'-tetrahydro[3,3']biisoxazolyl 2,2'-dioxides, 4,5,4',5'-tetrahydro[3,3']biisoxazolyls, and [3,3']biisoxazolyls via an initial ring-opening of 3,4-dinitrothiophene
AU Bianchi, Lara; Dell'Erba, Carlo; Gasparrini, Francesco; Novi, Marino; Petrillo, Giovanni; Sancassan, Fernando; Tavani, Cinzia
CS Dipartimento di Chimica e Chimica Industriale, Universita di Genova, Genoa, I-16146, Italy
SO ARKIVOC (Gainesville, FL, United States) [online computer file] (2002), (11), 142-158
CODEN: AGFUAR
URL: http://www.arkat-usa.org/ark/journal/2002/Spinelli/MS-580H/580H.pdf
PB Arkat USA Inc.
DT Journal; (online computer file)
LA English
OS CASREACT 139:364853
GI



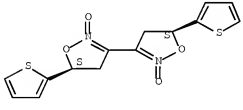
AB By means of an iodide-catalyzed nitrocyclopropane to 4,5-dihydroisoxazoline 2-oxide isomerization, the 1,1'-dinitro-[1,1']bi(cyclopropyl)s I (Ar = 4-MeC6H4, 1-naphthyl, 2-thienyl), derived from an initial ring-opening of 3,4-dinitrothiophene, can be stereospecifically converted into the bisnitronates II (same Ar). From these, successive N-oxide reduction [P(OMe)3/dioxane] and aromatization (DDQ/toluene) provide convenient access to the interesting 4,5,4'5'-tetrahydro[3,3']biisoxazolyls III and [3,3']biisoxazolyls IV, resp.

IT 620594-83-4P 620594-84-5P 620594-89-0P
620594-90-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of 4,5,4',5'-tetrahydro[3,3']biisoxazolyl 2,2'-dioxides, 4,5,4',5'-tetrahydro[3,3']biisoxazolyls, and [3,3']biisoxazolyls via iodide-catalyzed isomerization of nitrocyclopropanes and subsequent reduction and aromatization)

RN 620594-83-4 CAPLUS

CN 3,3'-Biisoxazole, 4,4',5,5'-tetrahydro-5,5'-di-2-thienyl-, 2,2'-dioxide, (5R,5'R)-rel- (CA INDEX NAME)

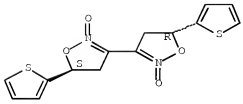
Relative stereochemistry.



RN 620594-84-5 CAPLUS

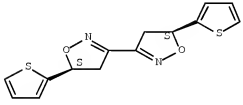
CN 3,3'-Biisoxazole, 4,4',5,5'-tetrahydro-5,5'-di-2-thienyl-, 2,2'-dioxide, (5S,5'R)-rel- (CA INDEX NAME)

Relative stereochemistry.



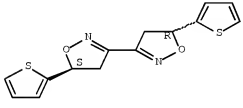
RN 620594-89-0 CAPLUS
CN 3,3'-Biisoxazole, 4,4',5,5'-tetrahydro-5,5'-di-2-thienyl-, (5R,5'R)-rel-
(CA INDEX NAME)

Relative stereochemistry.

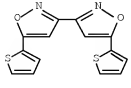


RN 620594-90-3 CAPLUS
CN 3,3'-Biisoxazole, 4,4',5,5'-tetrahydro-5,5'-di-2-thienyl-, (5R,5'S)-rel-
(CA INDEX NAME)

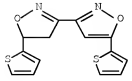
Relative stereochemistry.



IT 620594-91-4P 620594-94-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of 4,5,4',5'-tetrahydro[3,3']biisoxazolyl 2,2'-dioxides, 4,5,4',5'-tetrahydro[3,3']biisoxazolyls, and [3,3']biisoxazolyls via iodide-catalyzed isomerization of nitrocyclopropanes and subsequent reduction and aromatization)
RN 620594-91-4 CAPLUS
CN 3,3'-Biisoxazole, 5,5'-di-2-thienyl- (CA INDEX NAME)

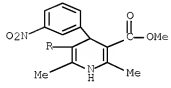


RN 620594-94-7 CAPLUS
CN 3,3'-Biisoxazole, 4,5-dihydro-5,5'-di-2-thienyl- (CA INDEX NAME)



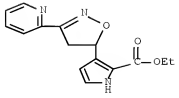
OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)
RE.CNT 64 THERE ARE 64 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2003:86384 CAPLUS Full-text
DN 139:69179
TI Synthesis and antitubercular activity studies of some unsymmetrical 1,4-dihydropyridines
AU Gaveriya, H.; Desai, B.; Vora, V.; Shah, A.
CS Department of Chemistry, Saurashtra University, Rajkot, 360 005, India
SO Indian Journal of Pharmaceutical Sciences (2002), 64(1), 59-62
CODEN: IJSIDW; ISSN: 0250-474X
PB Indian Pharmaceutical Association
DT Journal
LA English
OS CASREACT 139:69179
AB Unsym. 1,4-dihydropyridines having isoxazole and pyridine system were synthesized from 2,6-dimethyl-4-[3''-nitrophenyl]-5-carbomethoxy-3-[3''- aryl propene-1''-one]-1,4-dihydropyridines. All compds. were tested for antitubercular activity against M. tuberculosis (H37Rv) strain by using Bactec 460 method. The isoxazole derivs. showed modest activity.
IT 551928-91-7P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(synthesis and antitubercular activity studies of some unsym. 1,4-dihydropyridines containing isoxazole or pyridine units)
RN 551928-91-7 CAPLUS
CN 3-Pyridinecarboxylic acid, 5-[5-(2-furanyl)-3-isoxazolyl]-1,4-dihydro-2,6-dimethyl-4-(3-nitrophenyl)-, methyl ester (CA INDEX NAME)



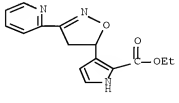
OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)
RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2002:585823 CAPLUS Full-text
DN 137:247634
TI Versatile "traceless" sulfone linker for SPOS: preparation of isoxazolinopyrrole 2-carboxylates
AU Hwang, Sung Hee; Kurth, Mark J.
CS Department of Chemistry, University of California, Davis, CA, 95616-5295, USA
SO Journal of Organic Chemistry (2002), 67(18), 6564-6567
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
OS CASREACT 137:247634
AB A five-step solid-phase synthesis of isoxazolinopyrrole-2-carboxylates that employs a traceless sulfone linker strategy is reported. Resin-bound diene, obtained by acetylation and concomitant β-elimination of acetate from resin-bound allylic alc., underwent regioselective 1,3-dipolar cycloaddns. with nitrile oxides. Formation of the pyrrole products in a resin-releasing strategy was performed by pyrrole annulation with alkyl isocyanoacetates, which react with the vinyl sulfone moiety to generate the target isoxazolinopyrrole-2-carboxylates. Use of this chemical afforded eight isoxazolinopyrrole-2-carboxylates in 6-24% overall yields from polystyrene/divinylbenzene sulfinate.
IT 410523-66-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(traceless sulfone linker for solid-phase synthesis of isoxazolinopyrrolecarboxylates)
RN 410523-66-9 CAPLUS
CN 1H-Pyrrole-2-carboxylic acid, 3-[4,5-dihydro-3-(2-pyridinyl)-5-isoxazolyl]-, ethyl ester (CA INDEX NAME)

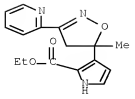


OSC.G 12 THERE ARE 12 CAPLUS RECORDS THAT CITE THIS RECORD (12 CITINGS)
RE.CNT 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 5 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2001:905594 CAPLUS Full-text
DN 136:309874
TI 1,3-Dipolar cycloaddition of nitrile oxides to 1-phenylsulfonyl-1,3-butadienes: synthesis of 3-(4,5-dihydroisoxazol-5-yl)pyrroles
AU Hwang, Sung Hee; Kurth, Mark J.
CS Department of Chemistry, University of California, Davis, CA, 95616-5295, USA
SO Tetrahedron Letters (2001), Volume Date 2002, 43(1), 53-56
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Science Ltd.
DT Journal
LA English
OS CASREACT 136:309874
AB Novel heterocyclic compds. containing the 3-(4,5-dihydroisoxazol-5-yl)pyrrole ring system were synthesized in good yields (66-78%) by regioselective 1,3-dipolar cycloaddn. of nitrile oxides to 1-phenylsulfonyl-1,3-dienes followed by Barton-Zard pyrrole annulation.
IT 410523-66-9P 410523-68-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(1,3-dipolar cycloaddn. of nitrile oxides to (phenylsulfonyl)butadienes)
RN 410523-66-9 CAPLUS
CN 1H-Pyrrole-2-carboxylic acid, 3-[4,5-dihydro-3-(2-pyridinyl)-5-isoxazolyl]-, ethyl ester (CA INDEX NAME)

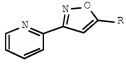


RN 410523-68-1 CAPLUS
CN 1H-Pyrrole-2-carboxylic acid, 3-[4,5-dihydro-5-methyl-3-(2-pyridinyl)-5-isoxazolyl]-, ethyl ester (CA INDEX NAME)



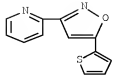
OSC.G 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (9 CITINGS)
RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 6 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2001:870498 CAPLUS Full-text
DN 136:134705
TI Use of iodoacetylene as a dipolarophile in the synthesis of 5-iodoisoxazole derivatives
AU Ku, Yi-Yin; Grieme, Tim; Sharma, Padam; Pu, Yu-Ming; Raje, Prasad; Morton, Howard; King, Steve
CS Chemical Process Research Global Pharmaceutical Research and Development, Abbott Laboratories, North Chicago, IL, 60064-4000, USA
SO Organic Letters (2001), 3(26), 4185-4187
CODEN: ORLEF7; ISSN: 1523-7060
PB American Chemical Society
DT Journal
LA English
OS CASREACT 136:134705
GI



I

AB Iodoacetylene was prepared in situ from the reactions of ethynylmagnesium bromide or tributyl(ethynyl)tin with iodine. It was used as a dipolarophile in the [2 + 3] cyclization reaction with 1,3-dipolar nitrile oxide derivs. to produce 2-(5-iodoisoxazol-3-yl)pyridine and 3-(4-fluorophenyl)-5-iodoisoxazole in good yield (70-90%). Subsequently, several 5-substituted isoxazole derivs. I (R = C.tplbond.CSiMe3, Ph, 2-thienyl, CH:CH2) were obtained by Pd-catalyzed coupling reactions. The crystal structure of 2-(5-iodoisoxazol-3-yl)pyridine was determined
IT 85903-28-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(generation and cyclization of iodoacetylene with nitrile oxide derivs. and coupling of (iodoisoxazolyl)pyridine)
RN 85903-28-2 CAPLUS
CN Pyridine, 2-[5-(2-thienyl)-3-isoxazolyl]- (CA INDEX NAME)

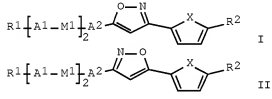


OSC.G 15 THERE ARE 15 CAPLUS RECORDS THAT CITE THIS RECORD (15 CITINGS)
RE.CNT 66 THERE ARE 66 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 7 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2001:334349 CAPLUS Full-text
DN 134:346538
TI Isoxazole derivatives and their use in liquid crystalline mixtures
IN Schmidt, Wolfgang; Hornung, Barbara; Wingen, Rainer
PA Clariant G.m.b.H., Germany
SO Ger. Offen., 12 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19953801	A1	20010510	DE 1999-19953801	19991109 <--
	US 6616989	B1	20030909	US 2000-708853	20001107
PRAI	DE 1999-19953801	A	19991109		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OS MARPAT 134:346538
GI

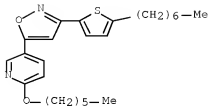


AB The invention relates to isoxazole derivs. represented by I or II (X = S, O; R1, R2 = H, F, CN, C1-20-alkyl, C2-20-alkenyl; A1, A2 = phenylene-1,4-diyl, phenylene-1,3-diyl, cyclohexane-1,4-diyl, 1-cyclohexene-1,4-diyl; pyridin-2,5-diyl, thiophene-2,5-diyl, furan-2,5-diyl, naphthalene-2,6-diyl; M1 = -OCO-, -OCH2-, -SCO-, CH2CH2-, -OCOCH2CH2-, -OCH2CH2CH2-, -C.tplbond.C-, -(CH2)4-, single bond; a = 0, 1), their prepns., and their use in liquid crystalline mixts. The liquid crystalline mixts. are suitable for chiral smectic switching- and/or display devices of inverse mode.

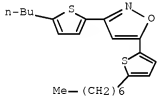
IT 337980-70-8P 337980-74-2P 337981-04-1P
337981-05-2P 337981-06-3P 337981-07-4P
337981-08-5P 337981-16-5P
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(isoxazole derivs. and their use in liquid crystalline mixts. suitable for chiral smectic switching- and/or display devices of inverse mode)

RN 337980-70-8 CAPLUS

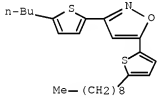
CN Pyridine, 5-[3-(5-heptyl-2-thienyl)-5-isoxazolyl]-2-(hexyloxy)- (CA INDEX NAME)



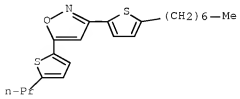
RN 337980-74-2 CAPLUS
CN Isoxazole, 3-(5-butyl-2-thienyl)-5-(5-heptyl-2-thienyl)- (CA INDEX NAME)



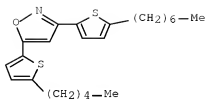
RN 337981-04-1 CAPLUS
CN Isoxazole, 3-(5-butyl-2-thienyl)-5-(5-nonyl-2-thienyl)- (CA INDEX NAME)



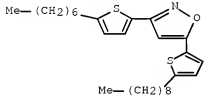
RN 337981-05-2 CAPLUS
CN Isoxazole, 3-(5-heptyl-2-thienyl)-5-(5-propyl-2-thienyl)- (CA INDEX NAME)



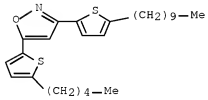
RN 337981-06-3 CAPLUS
CN Isoxazole, 3-(5-heptyl-2-thienyl)-5-(5-pentyl-2-thienyl)- (CA INDEX NAME)



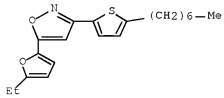
RN 337981-07-4 CAPLUS
CN Isoxazole, 3-(5-heptyl-2-thienyl)-5-(5-nonyl-2-thienyl)- (CA INDEX NAME)



RN 337981-08-5 CAPLUS
CN Isoxazole, 3-(5-decyl-2-thienyl)-5-(5-pentyl-2-thienyl)- (CA INDEX NAME)



RN 337981-16-5 CAPLUS
CN Isoxazole, 5-(5-ethyl-2-furanyl)-3-(5-heptyl-2-thienyl)- (CA INDEX NAME)



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L5 ANSWER 8 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2000:291033 CAPLUS Full-text
DN 132:308343
TI Preparation of 3-aryl-5-heterocyclyl-1,2,4-triazoles as insecticides and

acaricides.

IN Tisdell, Francis E.; Johnson, Peter L.; Pechacek, James T.; Suhr, Robert G.; Devries, Donald H.; Denny, Carl P.; Ash, Mary L.

PA Dow Agrosciences Llc, USA

SO PCT Int. Appl., 78 pp.
CODEN: PIXXD2

DT Patent

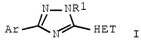
LA English

FAN.CNT 1

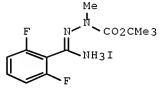
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000024739	A1	20000504	WO 1999-US24858	19991022 <--
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	BR 9914730	A	20010703	BR 1999-14730	19991022 <--
	EP 1124827	A1	20010822	EP 1999-955145	19991022 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	US 6413997	B1	20020702	US 1999-426930	19991022 <--
	JP 2002528451	T	20020903	JP 2000-578309	19991022 <--
	ES 2249920	T3	20060401	ES 1999-955145	19991022
PRAI	US 1998-105354P	P	19981023		
	WO 1999-US24858	W	19991022		

OS MARPAT 132:308343

GI



I



II

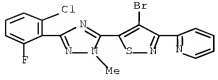
AB Title compds. [I; Ar = substituted Ph; R1 = alkyl, haloalkyl, alkenyl, alkynyl, alkoxyalkyl; HET = (substituted) isothiazolyl, isoxazolyl, oxazolyl, thiazolyl, pyrazolyl, pyrrolyl, thiadiazolyl], were prepared Thus, 3-chloro-5-phenylisothiazole-2-carboxylic acid was refluxed with SOCl2 and the resulting crude acid chloride was refluxed with amidrazone II (preparation given) and cat. p-TsOH in PhMe to give 50% 3-(2,6-difluorophenyl)-5-(3-phenyl-4-chloroisothiazol-5-yl)-1-methyl-1,2,4- triazole. The latter at 100 ppm gave 91-100% control of Tetranychus urticae.

IT 265325-76-6 265325-77-7

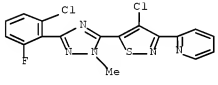
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(preparation of 3-aryl-5-heterocyclyl-1,2,4-triazoles as insecticides and acaricides)

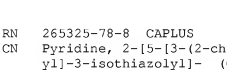
RN 265325-76-6 CAPLUS
CN Pyridine, 2-[4-bromo-5-[3-(2-chloro-6-fluorophenyl)-1-methyl-1H-1,2,4-triazol-5-yl]-3-isothiazolyl]- (CA INDEX NAME)



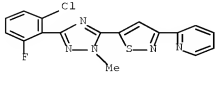
RN 265325-77-7 CAPLUS
CN Pyridine, 2-[4-chloro-5-[3-(2-chloro-6-fluorophenyl)-1-methyl-1H-1,2,4-triazol-5-yl]-3-isothiazolyl]- (CA INDEX NAME)



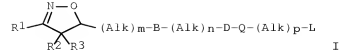
IT 265325-75-5P 265325-78-8P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 3-aryl-5-heterocyclyl-1,2,4-triazoles as insecticides and acaricides)
RN 265325-75-5 CAPLUS
CN Pyridine, 2-[4-bromo-5-[3-(2,6-difluorophenyl)-1-methyl-1H-1,2,4-triazol-5-yl]-3-isothiazolyl]- (CA INDEX NAME)



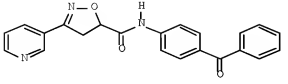
RN 265325-78-8 CAPLUS
CN Pyridine, 2-[5-[3-(2-chloro-6-fluorophenyl)-1-methyl-1H-1,2,4-triazol-5-yl]-3-isothiazolyl]- (CA INDEX NAME)



```
OSC.G   3      THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)
RE.CNT  6      THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
               ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5   ANSWER 9 OF 53  CAPLUS  COPYRIGHT 2009 ACS on STN
AN   2000:260283  CAPLUS  Full-text
DN   132:293757
TI   Preparation of novel 4,5-dihydroisoxazole derivatives and their use as
     pharmaceuticals for T cell-mediated diseases
IN   Freyne, Eddy Jean Edgard; Andres-Gil, Jose Ignacio; Deroose, Frederik
     Dirk; Petit, Davy Petrus Franciscus Maria; Matesanz-Ballesteros, Maria
     Encarnacion; Alvarez Escobar, Rosa Maria
PA   Janssen Pharmaceutica N.V., Belg.
SO   PCT Int. Appl., 108 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.          KIND   DATE        APPLICATION NO.         DATE
     --------------      ----   --------    --------------------    --------
PI   WO 2000021959       A1     20000420    WO 1999-EP7803          19991007 <--
         W:  AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
             CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
             IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD,
             MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,
             SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
             DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
             CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     CA 2346396           A1     20000420    CA 1999-2346396         19991007 <--
     CA 2346396           C      20090428
     EP 1119568           A1     20010801    EP 1999-953847          19991007 <--
     EP 1119568           B1     20040218
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
     JP 2002527438        T      20020827    JP 2000-575865          19991007 <--
     AU 763460            B2     20030724    AU 2000-10393           19991007
     AT 259803            T      20040315    AT 1999-953847          19991007
     ES 2216579           T3     20041016    ES 1999-953847          19991007
     US 6583141           B1     20030624    US 2001-807149          20010406
     HK 1038565           A1     20040618    HK 2002-100274          20020115
     US 20040019059       A1     20040129    US 2003-403543          20030331
     US 7414048           B2     20080819
PRAI EP 1998-203394       A      19981009
     WO 1999-EP7803       W      19991007
     US 2001-807149       A3     20010406
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OS   MARPAT 132:293757
GI
```



I

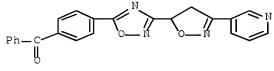


II

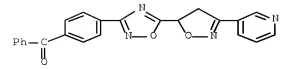
AB The invention concerns title compds. I and their N-oxides, pharmaceutically acceptable addition salts, quaternary ammonium salts, and stereochem. isomeric forms [wherein m, n, p = 0 or 1; R1 = (un)substituted pyridinyl, pyridazinyl, pyrimidinyl, pyrazinyl or phenyl; B = amide, ketone, or oxadiazole; D = (un)substituted aryl or heterocyclyl; Q = bond, CO, (un)substituted NH, CONH, CH2, CH(:CH2), C(:NH), SO, SO, 3-oxobutenyl, pyrazole, isoxazole, or thiazole nucleus; L = (un)substituted aryl or heteroaryl; R2, R3 = H, halo, C1-6 alkyloxy, or (un)substituted C1-6 alkyl]. Also disclosed is a process for their preparation, compns. comprising them, and their medical use. The compds. show growth inhibitory activity against T cell blasts and keratinocytes in vitro. The compds. are claimed for use in the treatment of prevention of rheumatic, arthritic, and inflammatory diseases, psoriasis, T cell leukemia, transplant rejection, and graft-vs.-host disease. For instance, base-catalyzed cycloaddn. of N-hydroxy-3-pyridinecarboximidoyl chloride with Me 2-propenoate gave 98% Me 4,5-dihydro-3-(3-pyridinyl)-5-isoxazolecarboxylate, which was amidated with (4-aminophenyl)phenylmethanone to give 58% title compound II. At a concentration of 10-6 M, II gave 81% inhibition of T cell blast formation in human whole blood.

IT 264605-63-2P 264605-64-3P 264605-65-4P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(target compound; preparation of dihydroisoxazole derivs. as antiproliferatives and immunomodulators)

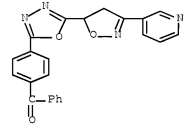
RN 264605-63-2 CAPLUS
CN Methanone, [4-[3-[4,5-dihydro-3-(3-pyridinyl)-5-isoxazolyl]-1,2,4-oxadiazol-5-yl]phenyl]phenyl- (CA INDEX NAME)



RN 264605-64-3 CAPLUS
CN Methanone, [4-[5-[4,5-dihydro-3-(3-pyridinyl)-5-isoxazolyl]-1,2,4-oxadiazol-3-yl]phenyl]phenyl- (CA INDEX NAME)



RN 264605-65-4 CAPLUS
CN Methanone, [4-[5-[4,5-dihydro-3-(3-pyridinyl)-5-isoxazolyl]-1,3,4-oxadiazol-2-yl]phenyl]phenyl- (CA INDEX NAME)

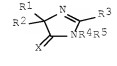


OSC.G 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)
RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 10 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1999:327180 CAPLUS Full-text
DN 130:352269
TI Preparation of imidazoline-5-ones as agrochemical fungicides
IN Pilkington, Brian Leslie; Russell, Sally Elizabeth; Whittle, Alan John; Mound, William Roderick; Turnbull, Michael Drysdale; Kozakiewicz, Anthony Marian; Hughes, David John; Whittingham, William Guy
PA Zeneca Limited, UK
SO Brit. UK Pat. Appl., 76 pp.
CODEN: BAXXDU
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI GB 2327676	A	19990203	GB 1998-16117	19980723 <--
PRAI GB 1997-15768	A	19970725		

OS MARPAT 130:352269
GI



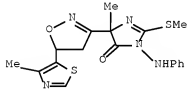
I

AB Title compds. [I; R1 = H, (substituted) alkyl, aryl, heteroaryl, alkenyl, alkynyl; R2 = R8ON:CR7, R8NHN:CR7; R3 = H, alkyl, haloalkyl, alkylthio,

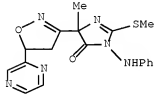
alkoxy, haloalkoxy, cyano, alkylsulfinyl, alkylsulfonyl; R4 = NH, NR6, NCOR6; R5, R6 = H, alkyl, (substituted) aryl, heteroaryl, aralkyl; R7 = H, alkyl, haloalkyl, alkylthio, alkoxy, haloalkoxy, cyano, amino, (substituted) aryl, heteroaryl; R8 = H, (substituted) alkyl, aryl, alkenyl, alkynyl, heteroaryl, acyl, haloacyl; X = O, S, NH], were prepared Thus, alanine Me ester hydrochloride, Me 3-phenyldithiocarbazate (preparation given), and Et3N were heated in DMF at 110° for 5 h to give 71% 4-methyl-1-phenylamino-2-thionoimidazolidin-5-one. This was refluxed 5 h with K2CO3 and MeI in acetone to give 75% 4-methyl-2-methylthio-1-phenylamino-2-imidazolin-5-one. The latter at -70° in THF was treated with LiN(SiMe3)2, Me2NCH2CH2NMe2, and then with H2CO gas to give 64% 4-hydroxymethyl-4-methyl-2-methylthio-1-phenylamino-2-imidazolidin-5-one. This in CH2Cl2 was added to (COCl)2 and Me2SO in CH2Cl2 at -70° followed by warming to -50°, treatment with O-phenylhydroxylamine hydrochloride and warming to room temperature to give 50.8% 4-methyl-2-methylthio-1-phenylamino-4-(O- phenylaldoximino)-2-imidazolin-5-one. The latter gave complete control of Plasmopara viticola on vines.

IT 224575-04-6P 224575-06-8P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of imidazoline-5-ones as agrochem. fungicides)

RN 224575-04-6 CAPLUS
CN 4H-Imidazol-4-one, 5-[4,5-dihydro-5-(4-methyl-5-thiazolyl)-3-isoxazolyl]-3,5-dihydro-5-methyl-2-(methylthio)-3-(phenylamino)- (CA INDEX NAME)



RN 224575-06-8 CAPLUS
CN 4H-Imidazol-4-one, 5-[4,5-dihydro-5-(2-pyrazinyl)-3-isoxazolyl]-3,5-dihydro-5-methyl-2-(methylthio)-3-(phenylamino)- (CA INDEX NAME)



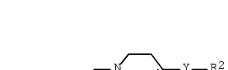
OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L5 ANSWER 11 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1997:41486 CAPLUS Full-text
DN 126:59867
OREF 126:11753a,11756a
TI Preparation of 3-(tetrahydropyridin-1-ylmethyl)pyrrolo[2,3-b]pyridines as ligands for dopamine receptor subtypes
IN Curtis, Neil Roy; Kulagowski, Janusz Jozef; Leeson, Paul David; Ridgill,

Mark Peter
PA Merck Sharp & Dohme Limited, UK
SO Brit. UK Pat. Appl., 37 pp.
CODEN: BAXXDU
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 2299581	A	19961009	GB 1996-6782	19960329 <--
PRAI	GB 1996-6782	A	19960329		
	GB 1995-7291		19950407		

OS MARPAT 126:59867
GI



I

II

III

IV

V

VI

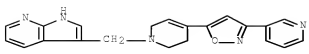
VII

VIII

AB The title compds. [I; A = H, C1-6 alkyl, C1-6 alkoxy, halo, CN, CF3; R1 = H, halo, CN, etc.; Y = a divalent monocyclic radical selected from the following groups of formula II to VIII (wherein X = O, S, (un)substituted NH; Z = CH, N); R = H, C1-6 alkyl; R2 = (un)substituted aryl, heteroaryl], which are ligands for dopamine receptor subtypes within the body, in particular the D4 subtype, and therefore useful in the treatment and/or prevention of disorders of the dopamine system, including schizophrenia and depression, were prepared Thus, refluxing of 4-(3-phenylisoxazol-5-yl)-1,2,3,6-tetrahydropyridine with 3-dimethylaminomethyl-1H-pyrrolo[2,3-b]pyridine in PhMe afforded 30% I [A = R = R1 = H; R2Y = 3-phenylisoxazol-5-yl] which showed Ki of < 1.5 μM for displacement of [3H]-spiperone from the human dopamine D4 receptor subtype.

IT 185132-30-3P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 3-(tetrahydropyridin-1-ylmethyl)pyrrolo[2,3-b]pyridines as ligands for dopamine receptor subtypes)

RN 185132-30-3 CAPLUS
CN 1H-Pyrrolo[2,3-b]pyridine, 3-[[3,6-dihydro-4-[3-(3-pyridinyl)-5-isoxazolyl]-1(2H)-pyridinyl]methyl]- (CA INDEX NAME)

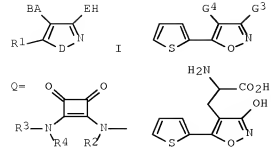


OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L5 ANSWER 12 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1995:731727 CAPLUS Full-text
DN 123:112056
OREF 123:20021a,20024a
TI 5-Arylisoxazol-4-yl-substituted 2-amino carboxylic acid compounds
IN Moltzen, Lenz Sibylle; Falch, Erik; Boegesoe, Klaus Peter; Krogsgaard-Larsen, Povl
PA H. Lundbeck A/S, Den.
SO PCT Int. Appl., 54 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9512587	A1	19950511	WO 1994-DK411	19941102 <--
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ, VN				
RW: KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2175685	A1	19950511	CA 1994-2175685	19941102 <--
AU 9480579	A	19950523	AU 1994-80579	19941102 <--
AU 680062	B2	19970717		
ZA 9408631	A	19950710	ZA 1994-8631	19941102 <--
EP 726896	A1	19960821	EP 1994-931523	19941102 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
CN 1136810	A	19961127	CN 1994-194388	19941102 <--
CN 1056837	C	20000927		
HU 74692	A2	19970128	HU 1996-1167	19941102 <--
JP 09504531	T	19970506	JP 1994-512970	19941102 <--
RU 2138488	C1	19990927	RU 1996-112168	19941102 <--
EP 994107	A1	20000419	EP 1999-125828	19941102 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT				
FI 9601872	A	19960503	FI 1996-1872	19960502 <--
NO 9601783	A	19960625	NO 1996-1783	19960502 <--
PRAI DK 1993-1243	A	19931103		
EP 1994-931523	A3	19941102		
WO 1994-DK411	W	19941102		

OS MARPAT 123:112056
GI



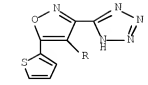
AB 2-Aminocarboxylic acid compds. substituted with 5-arylisoxazol-4-yl or 5-arylisothiazol-4-yl groups are claimed, specifically compds. I [A = bond or spacer; B = group CH(NR'R'')CO2H where R' and R'' = H or C1-6 alkyl, or B = cyclobutenedione group Q wherein R2, R3 and R4 = various substituents; or R3R4 or R2R4 form ring; E = O, S, CO2, (CH2)nCO2, O(CH2)nCO2, or S(CH2)nCO2 wherein n = 1-6, 5-tetrazolyl, 5-tetrazolylalkyl, 3-hydroxyisoxazolyl, or 3-hydroxyisoxazolylalkyl; D = O or S; R1 = (un)substituted aryl or heteroaryl; certain racemic forms excluded]. I are excitatory amino acid receptor ligands useful in the treatment of cerebral ischemia, Huntington's disease, epileptic disorders, Parkinson's disease, Alzheimer's disease, schizophrenia, pain, depression and anxiety. For example, cyanation of 2-bromothiophene with CuCN in refluxing NMP gave 63% 2-thiophenecarbonitrile, which reacted with MeCHBrCO2Et and Zn in the presence of CuBr2 to give 72% Et 2-methyl-3-(2-thienyl)-3-oxopropionate. This was cyclized with NH2OH to give 55% isoxazole derivative II (G3 = OH, G4 = Me), which underwent O-ethylation with EtBr and K2CO3 (51%) and benzylic bromination with NBS (100%) to give II (G3 = OEt, G4 = CH2Br). The latter was used to alkylate AcNHCH(CO2Et)2 (68%), and the resulting malonate diester was saponified, decarboxylated, deacetylated, and deethylated in refluxing 48% HBr, to give 30% title compound (±)-III. In the cortical wedge model in rats, this compound showed an AMPA agonist profile, with an EC50 of 5.8 μM. A variety of addnl. I were similarly prepared and tested by this and other binding assays; they showed activity as agonists or antagonists at NMDA and/or AMPA receptors.

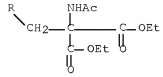
IT 166180-68-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of arylisoxazolyl amino carboxylic acids as AMPA/NMDA receptor ligands)

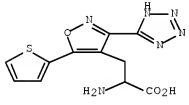
RN 166180-68-3 CAPLUS

CN Propanedioic acid, 2-(acetylamino)-2-[[3-(2H-tetrazol-5-yl)-5-(2-thienyl)-4-isoxazolyl]methyl]-, 1,3-diethyl ester (CA INDEX NAME)



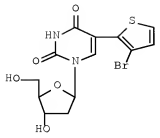


IT 166180-27-4P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of arylisoxazolyl amino carboxylic acids as AMPA/NMDA receptor ligands)
RN 166180-27-4 CAPLUS
CN 4-Isoxazolepropanoic acid, α-amino-3-(2H-tetrazol-5-yl)-5-(2-thienyl)- (CA INDEX NAME)

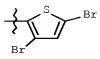


OSC.G 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (11 CITINGS)
RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 13 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1995:673548 CAPLUS Full-text
DN 123:340713
OREF 123:61171a,61174a
TI 2'-Deoxyuridines with a 5-heteroaromatic substituent: synthesis and biological evaluation
AU Luyten, I.; Jie, L.; Van Aershot, A.; Pannecouque, C.; Wigerinck, P.; Rozenski, J.; Hendrix, C.; Wang, C.; Wiebe, L.; et al.
CS Lab. Medicinal Chem., Inst. Medical Research, Louvain, B-3000, Belg.
SO Antiviral Chemistry & Chemotherapy (1995), 6(4), 262-70
CODEN: ACCHEH; ISSN: 0956-3202
PB Blackwell
DT Journal
LA English
GI

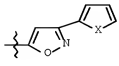


I



II

III



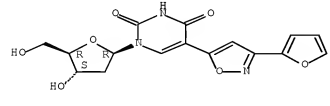
VI

AB A series of novel 2'-deoxyuridines with a thienyl substituent in the 5-position were synthesized as potential anti-HSV-1 agents. The brominated derivs. I-III were obtained via halogenation reactions of the protected 5-(2-thienyl)-2'-deoxyuridine and 5-(3-thienyl)-2'-deoxyuridine, resp. The palladium-catalyzed cross-coupling reaction with stannylated thiophene was used for the synthesis of (E)-5-(2-thienylvinyl)-2'-deoxyuridine (IV) and 5-(2,2'-bithien-5-yl)-2'-deoxyuridine (V). These compds. show moderate to good activity against herpes simplex virus type 1 (HSV-1) in the order of decreasing activity I>IV>II>III.apprx.V. Finally, 5-isoxazolyl derivs. VI (X = S, O) were prepared via a 1,3-dipolar cycloaddn. of the protected 5-ethynyl-2'-deoxyuridine. VI were inactive against HSV-1. The new compds. were inactive against several other viruses. They also demonstrated poor affinity for HSV-1-specific thymidine kinase. V had a CC50 (50% cytostatic concentration) of 16 μg/mL, whereas the other compds. had no marked cytotoxicity.

IT 169687-87-0P 169687-88-1P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and anti-HSV-1 activity of heteroarom.-substituted deoxyuridines)

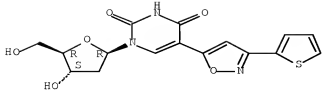
RN 169687-87-0 CAPLUS
CN Uridine, 2'-deoxy-5-[3-(2-furanyl)-5-isoxazolyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



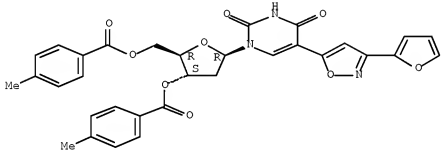
RN 169687-88-1 CAPLUS
CN Uridine, 2'-deoxy-5-[3-(2-thienyl)-5-isoxazolyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



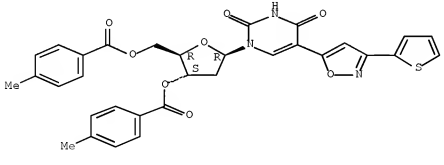
IT 170453-17-5P 170453-18-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and anti-HSV-1 activity of heteroarom.-substituted deoxyuridines)
RN 170453-17-5 CAPLUS
CN Uridine, 2'-deoxy-5-[3-(2-furanyl)-5-isoxazolyl]-, 3',5'-bis(4-methylbenzoate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 170453-18-6 CAPLUS
CN Uridine, 2'-deoxy-5-[3-(2-thienyl)-5-isoxazolyl]-, 3',5'-bis(4-methylbenzoate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

L5 ANSWER 14 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1995:631029 CAPLUS Full-text
DN 123:286459
OREF 123:51351a,51354a

TI Synthesis and antiviral activities of some new 5-heteroaromatic substituted derivatives of 2'-deoxyuridine

AU Liu, J.; Van Aerschot, A.; Luyten, I.; Wigernick, P.; Pannecouque, C.; Balzarini, J.; De Clercq, E.; Herdewijn, P.

CS Laboratories Medicinal Chemistry Antiviral Chemotherapy, Rega Institute Medical Research, Louvain, B-3000, Belg.

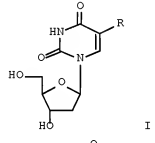
SO Nucleosides & Nucleotides (1995), 14(3-5), 525-8
CODEN: NUNUD5; ISSN: 0732-8311

PB Dekker

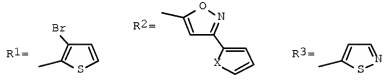
DT Journal

LA English

GI



I



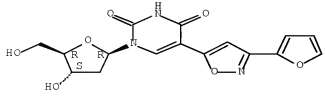
AB Eight new 5-heteroarom. substituted analogs of 2'-deoxyuridine, e.g. I (R = R1, R2, R3, X = O, S), have been synthesized and evaluated for their inhibitory properties against a panel of different viruses. Several analogs containing a substituted thiophene moiety proved to be highly selective against herpes simplex virus type 1 (HSV-1).

IT 169687-87-0P 169687-88-1P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(synthesis and antiviral activities of heteroarom. substituted derivs. of deoxyuridine)

RN 169687-87-0 CAPLUS

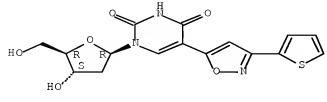
CN Uridine, 2'-deoxy-5-[3-(2-furanyl)-5-isoxazolyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 169687-88-1 CAPLUS
CN Uridine, 2'-deoxy-5-[3-(2-thienyl)-5-isoxazolyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

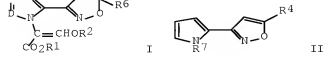


OSC.G 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

L5 ANSWER 15 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1993:449381 CAPLUS Full-text
DN 119:49381
OREF 119:8961a,8964a
TI Preparation of 3-alkoxy-2-[2-(3-isoxazolyl)pyrrolo]acrylates and analogs as agrochemical fungicides
IN Camaggi, Giovanni; Filippini, Lucio; Meazza, Giovanni; Riva, Raul; Zanardi, Giampaolo; Garavaglia, Carlo; Mirenna, Luigi
PA Ministero dell' Universita' e della Ricerca Scientifica e Tecnologica, Italy
SO Eur. Pat. Appl., 15 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 532126	A1	19930317	EP 1992-202794	19920912 <--
	EP 532126	B1	19961218		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, PT, SE				
	AU 9222194	A	19930318	AU 1992-22194	19920908 <--
	AU 652471	B2	19940825		
	US 5268383	A	19931207	US 1992-943335	19920910 <--
	CA 2078065	A1	19930314	CA 1992-2078065	19920911 <--
	RU 2065860	C1	19960827	RU 1992-5052900	19920911 <--
	AT 146469	T	19970115	AT 1992-202794	19920912 <--
	ES 2096709	T3	19970316	ES 1992-202794	19920912 <--
	JP 06157519	A	19940603	JP 1992-270882	19920914 <--
PRAI	IT 1991-MI2421	A	19910913		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OS MARPAT 119:49381
GI



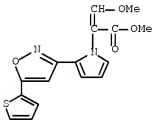
AB Title compds. [I; A,B,D = N, CR; R = H, halo, NO2, cyano, (halo)alkoxy, (halo)alkyl; R1,R2 = (halo)alkyl; R3,R4 = H, alkyl, cyano, alkoxycarbonyl; R3R4 = bond; R5,R6 = H, halo, alkyl, Ph, heterocyclyl, etc.] were prepared Thus, 1-(methoxycarbonyl)pyrrole-2-carboxoldehyde was oximated and the product cyclocondensed with 4-ClC6H4C.tplbond.CH to give isoxazolylpyrroloacetate II (R4 = C6H4Cl-4)(III; R7 = CH2CO2Me) which was condensed with HCO2Et and the product O-methylated to give (Z)-III [R7 = C(CO2Me):COMe]. II [R4 = CMe3, R7 = C(CO2Me):COMe] gave >90% control of Sphaerotheca fuliginia on cucumber plants when sprayed at 500 ppm.

IT 148191-69-9P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as agrochem. fungicide)

RN 148191-69-9 CAPLUS

CN 1H-Pyrrole-1-acetic acid, α-(methoxymethylene)-2-[5-(2-thienyl)-3-isoxazolyl]-, methyl ester (CA INDEX NAME)



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L5 ANSWER 16 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1991:100773 CAPLUS Full-text

DN 114:100773

OREF 114:17169a,17172a

TI Cycloadditions of 2,5-dimethyl-3-furannitrile oxide to alkenes and alkynes

AU Jedlovska, Eva; Fisera, Lubor; Balkova, Anna; Kovac, Jaroslav; Stibranyi, Ladislav

CS Dep. Org. Chem., Slovak Inst. Technol., Bratislava, 812 37, Czech.

SO Collection of Czechoslovak Chemical Communications (1990), 55(10), 2481-92
CODEN: CCCCAK; ISSN: 0010-0765

DT Journal

LA English

OS CASREACT 114:100773

AB Regioselectivity of 1,3-dipolar cycloaddns. of 2,5-dimethyl-3-furannitrile oxide (I) to alkenes or alkynes is described. I generated in situ reacts with monosubstituted alkenes or alkynes to give exclusively 5-substituted 3-(5-dimethyl-3-furyl)-2-isoxazolines and isoxazoles, 2,5-disubstituted alkenes sometimes afforded a mixture of regioisomeric isoxazolines. Reactivity of furannitrile oxides in cycloaddns. to ethene was studied by the MNDO method.

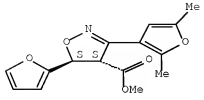
IT 132366-45-1P 132366-46-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

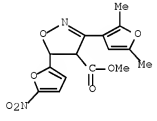
RN 132366-45-1 CAPLUS

CN 4-Isoxazolecarboxylic acid, 3-(2,5-dimethyl-3-furanyl)-5-(2-furanyl)-4,5-dihydro-, methyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

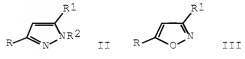


RN 132366-46-2 CAPLUS
CN 4-Isoxazolecarboxylic acid, 3-(2,5-dimethyl-3-furanyl)-4,5-dihydro-5-(5-nitro-2-furanyl)-, methyl ester (CA INDEX NAME)



OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L5 ANSWER 17 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1990:552319 CAPLUS Full-text
DN 113:152319
OREF 113:25895a,25898a
TI Studies in the pyridine series. LIX. Synthesis and reactions of novel 1,3-dipyridinyl-1,3-propanediones
AU Ferles, Miloslav; Liboska, Radek; Trska, Petr
CS Dep. Org. Chem., Prague Inst. Chem. Technol., Prague, 166 28, Czech.
SO Collection of Czechoslovak Chemical Communications (1990), 55(5), 1228-33
CODEN: CCCCAK; ISSN: 0010-0765
DT Journal
LA English
OS CASREACT 113:152319
GI

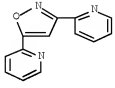


AB Condensation of 2-, 3-, and 4-acetylpyridine with Et 2-, 3- or 4-pyridinecarboxylates gave RCOCH2COR1 (I, R = 2-pyridyl, 3-pyridyl; R1 = 3-pyridyl, 4-pyridyl). Pyrazoles II (R = R1 = 2-pyridyl, R2 = H, Ph; R = 2-pyridyl, R1 = 3-pyridyl, 4-pyridyl; R2 = H, Ph) were prepared by

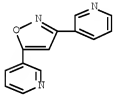
cyclocondensation of I with H2NNHPh. Isoxazoles III (R = R1 = 2-pyridyl, 3-pyridyl; R = 2-pyridyl, R1 = 4-pyridyl; R = 4-pyridyl, R1 = 2-pyridyl) were prepared by cyclocondensation of I with H2NOH.

IT 129485-54-7P 129485-55-8P 129485-56-9P
129485-57-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

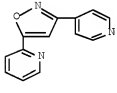
RN 129485-54-7 CAPLUS
CN Pyridine, 2,2'-(3,5-isoxazolediyl)bis- (9CI) (CA INDEX NAME)



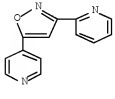
RN 129485-55-8 CAPLUS
CN Pyridine, 3,3'-(3,5-isoxazolediyl)bis- (9CI) (CA INDEX NAME)



RN 129485-56-9 CAPLUS
CN Pyridine, 2-[3-(4-pyridinyl)-5-isoxazolyl]- (CA INDEX NAME)

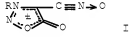


RN 129485-57-0 CAPLUS
CN Pyridine, 2-[5-(4-pyridinyl)-3-isoxazolyl]- (CA INDEX NAME)

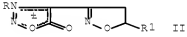


OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

L5 ANSWER 18 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1989:457640 CAPLUS Full-text
DN 111:57640
OREF 111:9783a,9786a
TI The 1,3-dipolar cycloadditions of 3-arylsydnone-4-carbonitrile oxides with alkenes
AU Yeh, Mou Yung; Chu, Wai Cheung
CS Dep. Chem., Natl. Cheng Kung Univ., Tainan, 70101, Taiwan
SO Journal of the Chinese Chemical Society (Taipei, Taiwan) (1988), 35(6), 451-7
CODEN: JCCTAC; ISSN: 0009-4536
DT Journal
LA English
GI

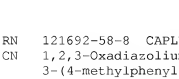


I

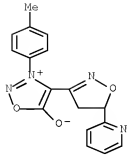


II

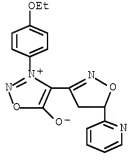
AB 3-Arylsydnone-4-carbonitrile oxides (I) may undergo 1,3-dipolar cycloaddns. with alkenes to produce the corresponding 3-aryl-4-(5-substituted-isoxazolin-3-yl)sydnones (II). The direct reaction of 3-arylsydnone-4-carbohydroximic acid chlorides with alkenes may also give the same products, and with higher yield. Thus, I (R = Ph, p-tolyl, p-EtOC6H4) and H2C:CHR1 (R1 = CN, Ph, 2-pyridinyl, AcO, CH2Cl, CH3OH, 2--pyrrolidinon-1-yl, Ac) gave 34-87% 24 II.
IT 121692-57-7P 121692-58-8P 121692-59-9P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and spectra of)
RN 121692-57-7 CAPLUS
CN 1,2,3-Oxadiazolium, 4-[4,5-dihydro-5-(2-pyridinyl)-3-isoxazolyl]-5-hydroxy-3-phenyl-, inner salt (CA INDEX NAME)



RN 121692-58-8 CAPLUS
CN 1,2,3-Oxadiazolium, 4-[4,5-dihydro-5-(2-pyridinyl)-3-isoxazolyl]-5-hydroxy-3-(4-methylphenyl)-, inner salt (CA INDEX NAME)

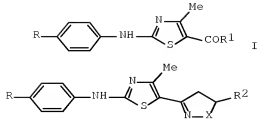


RN 121692-59-9 CAPLUS
CN 1,2,3-Oxadiazolium, 4-[4,5-dihydro-5-(2-pyridinyl)-3-isoxazolyl]-3-(4-ethoxyphenyl)-5-hydroxy-, inner salt (CA INDEX NAME)



OSC.G 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)

L5 ANSWER 19 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1988:94457 CAPLUS Full-text
DN 108:94457
OREF 108:15535a,15538a
TI Synthesis of thiazolylpyrazolines and -isoxazolines from acrylothiazoles and their microbial activity
AU Gawande, N. G.; Shingare, M. S.
CS Chem. Dep., Marathwada Univ., Aurangabad, 431 004, India
SO Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1987), 26B(4), 351-5
CODEN: IJSBDB; ISSN: 0376-4699
DT Journal
LA English
OS CASREACT 108:94457
GI

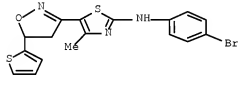


AB Thiazoles I (R = H, Br, Cl, Me, OMe, OEt; R1 = CH:CHR2; R2 = Ph, 2-HOC6H4, C6H4R3-4, 2-pyridyl, 2-furyl, 2-thienyl; R3 = Cl, Br, NO2, Me, OMe; II) were prepared by the Claisen Schmidt condensation of 5-acetyl-2-arylamino-4-methylthiazoles I (R1 = Me). II reacted with N2H4 and NH2OH to give and thiazolylpyrazolines III (X = NH) and thiazolylisoxazolines III (X = O), resp. Some III (X = NH, O) were screened for fungicidal activity against Penicillium notatum by dry wet technique, and they showed activity.

IT 112834-37-4P 112834-75-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and fungicidal activity of)

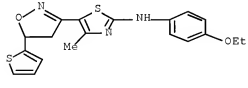
RN 112834-37-4 CAPLUS

CN 2-Thiazolamine, N-(4-bromophenyl)-5-[4,5-dihydro-5-(2-thienyl)-3-isoxazolyl]-4-methyl- (CA INDEX NAME)



RN 112834-75-0 CAPLUS

CN 2-Thiazolamine, 5-[4,5-dihydro-5-(2-thienyl)-3-isoxazolyl]-N-(4-ethoxyphenyl)-4-methyl- (CA INDEX NAME)

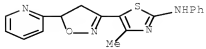


IT 112834-26-1P 112834-27-2P 112834-28-3P
112834-35-2P 112834-36-3P 112834-45-4P
112834-46-5P 112834-47-6P 112834-55-6P
112834-56-7P 112834-57-8P 112834-64-7P
112834-65-8P 112834-73-8P 112834-74-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

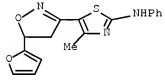
RN 112834-26-1 CAPLUS

CN 2-Thiazolamine, 5-[4,5-dihydro-5-(2-pyridinyl)-3-isoxazolyl]-4-methyl-N-

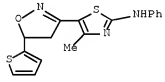
phenyl- (CA INDEX NAME)



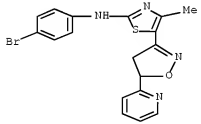
RN 112834-27-2 CAPLUS
CN 2-Thiazolamine, 5-[5-(2-furanyl)-4,5-dihydro-3-isoxazolyl]-4-methyl-N-phenyl- (CA INDEX NAME)



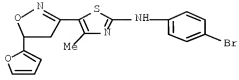
RN 112834-28-3 CAPLUS
CN 2-Thiazolamine, 5-[4,5-dihydro-5-(2-thienyl)-3-isoxazolyl]-4-methyl-N-phenyl- (CA INDEX NAME)



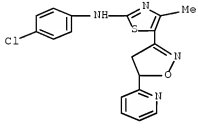
RN 112834-35-2 CAPLUS
CN 2-Thiazolamine, N-(4-bromophenyl)-5-[4,5-dihydro-5-(2-pyridinyl)-3-isoxazolyl]-4-methyl- (CA INDEX NAME)



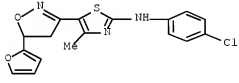
RN 112834-36-3 CAPLUS
CN 2-Thiazolamine, N-(4-bromophenyl)-5-[5-(2-furanyl)-4,5-dihydro-3-isoxazolyl]-4-methyl- (CA INDEX NAME)



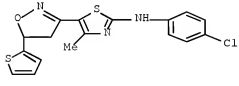
RN 112834-45-4 CAPLUS
CN 2-Thiazolamine, N-(4-chlorophenyl)-5-[4,5-dihydro-5-(2-pyridinyl)-3-isoxazolyl]-4-methyl- (CA INDEX NAME)



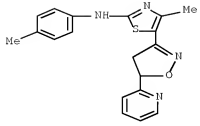
RN 112834-46-5 CAPLUS
CN 2-Thiazolamine, N-(4-chlorophenyl)-5-[5-(2-furanyl)-4,5-dihydro-3-isoxazolyl]-4-methyl- (CA INDEX NAME)



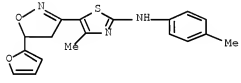
RN 112834-47-6 CAPLUS
CN 2-Thiazolamine, N-(4-chlorophenyl)-5-[4,5-dihydro-5-(2-thienyl)-3-isoxazolyl]-4-methyl- (CA INDEX NAME)



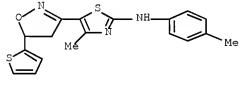
RN 112834-55-6 CAPLUS
CN 2-Thiazolamine, 5-[4,5-dihydro-5-(2-pyridinyl)-3-isoxazolyl]-4-methyl-N-(4-methylphenyl)- (CA INDEX NAME)



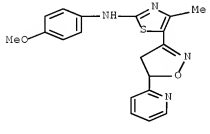
RN 112834-56-7 CAPLUS
CN 2-Thiazolamine, 5-[5-(2-furanyl)-4,5-dihydro-3-isoxazolyl]-4-methyl-N-(4-methylphenyl)- (CA INDEX NAME)



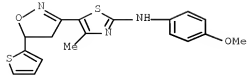
RN 112834-57-8 CAPLUS
CN 2-Thiazolamine, 5-[4,5-dihydro-5-(2-thienyl)-3-isoxazolyl]-4-methyl-N-(4-methylphenyl)- (CA INDEX NAME)



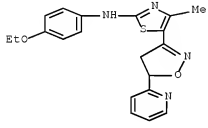
RN 112834-64-7 CAPLUS
CN 2-Thiazolamine, 5-[4,5-dihydro-5-(2-pyridinyl)-3-isoxazolyl]-N-(4-methoxyphenyl)-4-methyl- (CA INDEX NAME)



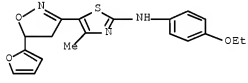
RN 112834-65-8 CAPLUS
CN 2-Thiazolamine, 5-[4,5-dihydro-5-(2-thienyl)-3-isoxazolyl]-N-(4-methoxyphenyl)-4-methyl- (CA INDEX NAME)



RN 112834-73-8 CAPLUS
CN 2-Thiazolamine, 5-[4,5-dihydro-5-(2-pyridinyl)-3-isoxazolyl]-N-(4-ethoxyphenyl)-4-methyl- (CA INDEX NAME)

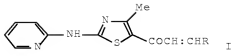


RN 112834-74-9 CAPLUS
CN 2-Thiazolamine, N-(4-ethoxyphenyl)-5-[5-(2-furanyl)-4,5-dihydro-3-isoxazolyl]-4-methyl- (CA INDEX NAME)



OSC.G 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (9 CITINGS)

L5 ANSWER 20 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1987:67261 CAPLUS Full-text
DN 106:67261
OREF 106:11063a,11066a
TI Reactions of o-aminothiophenol, guanidine, thiourea, hydrazine hydrate, and hydroxylamine with acryloylthiazoles and microbial activities of the reaction products
AU Kulkarni, S. E., Miss; Mane, R. A.; Ingle, D. B.
CS Chem. Dep., Marathwada Univ., Aurangabad, 431 004, India
SO Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1986), 25B(4), 452-5
CODEN: IJSBDB; ISSN: 0376-4699
DT Journal
LA English
OS CASREACT 106:67261
GI

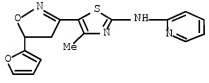


I

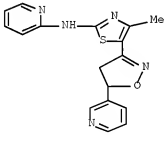
AB Acryloylthiazoles I (R = 2-furyl, 3-, 4-pyridyl, 2-thienyl) have been synthesized by the Claisen-Schmidt condensation of 5-acetyl-4-methyl-2-(2-pyridylamino)thiazole and RCHO. I react with 2-HSC6H4NH2, guanidine, thiourea, N2H4, and NH2OH to give thiazolylbenzothiazepines, thiazolylpyrimidinamines, thiazolylpyrimidinthiones, thiazolylpyrazolines, and thiazolylisoxazolines, resp., all of which have fungicidal activity (no data).

IT 106535-11-9P 106535-12-0P 106535-13-1P
106535-14-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and fungicidal activity of)

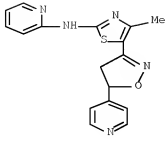
RN 106535-11-9 CAPLUS
CN 2-Pyridinamine, N-[5-[5-(2-furanyl)-4,5-dihydro-3-isoxazolyl]-4-methyl-2-thiazolyl]- (CA INDEX NAME)



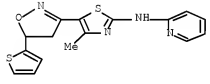
RN 106535-12-0 CAPLUS
CN 2-Pyridinamine, N-[5-[4,5-dihydro-5-(3-pyridinyl)-3-isoxazolyl]-4-methyl-2-thiazolyl]- (CA INDEX NAME)



RN 106535-13-1 CAPLUS
CN 2-Pyridinamine, N-[5-[4,5-dihydro-5-(4-pyridinyl)-3-isoxazolyl]-4-methyl-2-thiazolyl]- (CA INDEX NAME)

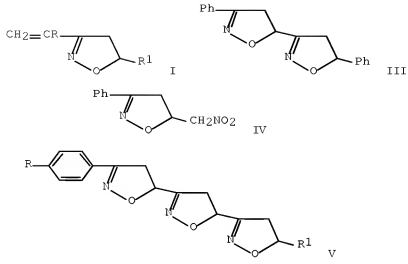


RN 106535-14-2 CAPLUS
CN 2-Pyridinamine, N-[5-[4,5-dihydro-5-(2-thienyl)-3-isoxazolyl]-4-methyl-2-thiazolyl]- (CA INDEX NAME)



OSC.G 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)

L5 ANSWER 21 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1985:523393 CAPLUS Full-text
DN 103:123393
OREF 103:19737a,19740a
TI Synthesis and properties of azoles and their derivatives. Part IX. Synthesis and reaction of alkenes with acrylonitrile and methacrylonitrile N-oxides
AU Baranski, Andrzej
CS Inst. Org. Chem. Technol., Polytech. Univ., Krakow, 31155, Pol.
SO Polish Journal of Chemistry (1984), 58(4-5-6), 425-37
CODEN: PJCHDQ; ISSN: 0137-5083
DT Journal
LA English
OS CASREACT 103:123393
GI

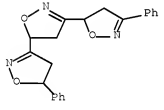


AB Treating CH2:CRCH2NO2 (R = H, Me) with PhNCO and CH2:CHR1 (R1 = Ph, OEt, CN, CO2Me, CH2Cl) in absolute C6H6 containing Et3N overnight at room temperature gave 60-86% isoxazolines I. Treating I (R = H, R1 = Ph) (II) with benzonitrile oxide gave 66% bisisoxazoline III; treatment with PhC(:NOH)Cl gave 68% III; treatment of IV with PhCH:CH2 gave 70% III; and treatment of II with PhCH2NO2 gave 62% III. Addnl. obtained were the trisisoxazolines V (R = H, R1 = Ph, CH2Cl; R = F, R1 = Ph).

IT 98185-98-9P 98185-99-0P 98186-00-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

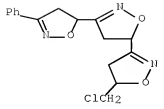
RN 98185-98-9 CAPLUS

CN 3,5':3',5''-Terisoxazole, 4,4',4'',5,5',5''-hexahydro-3'',5-diphenyl- (9CI) (CA INDEX NAME)

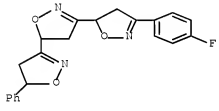


RN 98185-99-0 CAPLUS

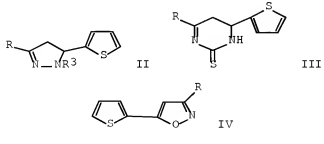
CN 3,5':3',5''-Terisoxazole, 5-(chloromethyl)-4,4',4'',5,5',5''-hexahydro-3''-phenyl- (9CI) (CA INDEX NAME)



RN 98186-00-6 CAPLUS
CN 3,5':3',5''-Terisoxazole, 3''-(4-fluorophenyl)-4,4',4'',5,5',5''-hexahydro-5-phenyl- (9CI) (CA INDEX NAME)



L5 ANSWER 22 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1984:209730 CAPLUS Full-text
DN 100:209730
OREF 100:31847a,31850a
TI Azachalcones. III. Reactions of azachalcones with amines and hydrazines
AU Attia, A.; Michael, M.
CS Lab. Appl. Org. Chem., Natl. Res. Cent., Cairo, Egypt
SO Acta Chimica Hungarica (1983), 114(3-4), 337-48
CODEN: ACHUDC; ISSN: 0231-3146
DT Journal
LA English
OS CASREACT 100:209730
GI

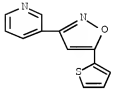


AB RCOCH:CHR1 (I, R = 2-, 3-, 4-pyridyl, R1 = 2-thienyl) were converted to their oximes which were treated with R2NCO (R2 = Me, CHMe2, Bu, Ph, 4-ClC6H4) to give R1CH:CHCR:NO2CNHR2. Treatment of I with R3NHNH2 (R3 = Ac, Ph, 4-MeC6H4, 4-ClC6H4) gave the pyrazoles II and with thiourea gave the pyrimidinethiones

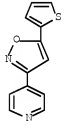
III. I were brominated and treated with NH2OH to give isoxazoles IV. All the products were tested for bactericidal activity, but had little effect.

IT 85903-29-2P 85903-30-6P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and bactericidal activity of)

RN 85903-29-3 CAPLUS
CN Pyridine, 3-[5-(2-thienyl)-3-isoxazolyl]- (CA INDEX NAME)



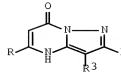
RN 85903-30-6 CAPLUS
CN Pyridine, 4-[5-(2-thienyl)-3-isoxazolyl]- (CA INDEX NAME)



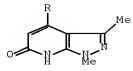
OSC.G 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

L5 ANSWER 23 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1984:174772 CAPLUS Full-text
DN 100:174772
OREF 100:26585a,26588a
TI Studies in the field of nitrogen heterocyclic compounds. Part VIII. Syntheses and structures of some novel pyrazolo[1,5-a]pyrimidine derivatives
AU Balicki, Roman; Nantka-Namirski, Pawel
CS Inst. Org. Chem., Pol. Acad. Sci., Warsaw, 01224, Pol.
SO Polish Journal of Chemistry (1983), Volume Date 1982, 56(7-8-9), 963-73
CODEN: PJCHDQ; ISSN: 0137-5083
DT Journal
LA English
OS CASREACT 100:174772
GI

III



IV



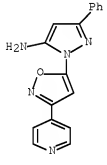
V

AB Cyclocondensation of RCOCH2CO2Et [R = 2-pyridinyl (I), 3-pyridinyl (II)] with aminopyrazoles III (R1 = R2 = H, R3 = H, Ph; R1 = R3 = H, R2 = Ph) gave pyrazolo[1,5-a]pyrimidines IV, whose structures were confirmed by independent synthesis. Reaction of I and II with III (R1 = R2 = Me, R3 = H) gave pyrazolo[3,4-b]pyrimidines V.

IT 89819-66-9P 89819-68-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reductive cyclization of)

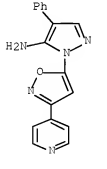
RN 89819-66-9 CAPLUS

CN 1H-Pyrazol-5-amine, 3-phenyl-1-[3-(4-pyridinyl)-5-isoxazolyl]- (CA INDEX NAME)



RN 89819-68-1 CAPLUS

CN 1H-Pyrazol-5-amine, 4-phenyl-1-[3-(4-pyridinyl)-5-isoxazolyl]- (CA INDEX NAME)

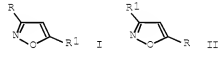


L5 ANSWER 24 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN

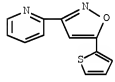
AN 1983:215512 CAPLUS Full-text

DN 98:215512

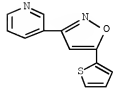
OREF 98:32769a,32772a
TI Studies on isomeric pyridylisoxazoles
AU Belgodere, Elena; Bossio, Ricardo; De Sio, Francesco; Marcaccini, Stefano; Pepino, Roberto
CS Ist. Chim. Org., Univ. Firenze, Florence, 50121, Italy
SO Heterocycles (1983), 20(3), 501-4
CODEN: HTCYAM; ISSN: 0385-5414
DT Journal
LA English
OS CASREACT 98:215512
GI



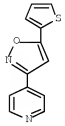
AB The cyclocondensation reaction of RCOCH2COR1 (R = 2-, 3-, and 4-pyridyl, 2-thienyl; R1 = Ph, 2-thienyl, Me) with HONH2 gave mixts. of isoxazole isomers I and II. α-(2-Pyridinecarbonyl)acetophenone reacted with HONH2.HCl and Na2CO3 to give 75% I (R = 2-pyridyl, R1 = Ph) and 25% II (R = 2-pyridyl, R1 = Ph).
IT 85903-28-2P 85903-29-3P 85903-30-6P
85903-36-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 85903-28-2 CAPLUS
CN Pyridine, 2-[5-(2-thienyl)-3-isoxazolyl]- (CA INDEX NAME)



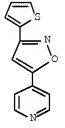
RN 85903-29-3 CAPLUS
CN Pyridine, 3-[5-(2-thienyl)-3-isoxazolyl]- (CA INDEX NAME)



RN 85903-30-6 CAPLUS
CN Pyridine, 4-[5-(2-thienyl)-3-isoxazolyl]- (CA INDEX NAME)

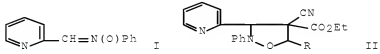


RN 85903-36-2 CAPLUS
CN Pyridine, 4-[3-(2-thienyl)-5-isoxazolyl]- (CA INDEX NAME)



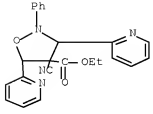
OSC.G 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)

L5 ANSWER 25 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1979:38242 CAPLUS Full-text
DN 90:38242
OREF 90:6151a,6154a
TI Nitrones and oxaziridines. XXI. Electronic substituent effects in nitrone cycloadditions to highly polarized alkenes
AU Black, David St. C.; Crozier, Robert F.; Rae, Ian D.
CS Dep. Chem., Monash Univ., Clayton, Australia
SO Australian Journal of Chemistry (1978), 31(10), 2239-46
CODEN: AJCHAS; ISSN: 0004-9425
DT Journal
LA English
OS CASREACT 90:38242
GI

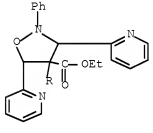


AB Kinetic data indicated that the cycloaddn. of I to RCH:C(CN)CO2Et (R = 2-pyridyl, Ph, 4-O2NC6H4, 4-MeOC6H4, 2-O2NC6H4) to give II involved a nonsynchronous addition via a dipolar intermediate or possibly a 2-step addition via a discrete zwitterionic intermediate.
IT 68752-88-5P 68752-92-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 68752-88-5 CAPLUS
CN 4-Isoxazolidinecarboxylic acid, 4-cyano-2-phenyl-3,5-di-2-pyridinyl-, ethyl ester (CA INDEX NAME)

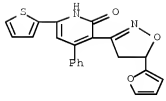


RN 68752-92-1 CAPLUS
CN 4,4-Isoxazolidinedicarboxylic acid, 2-phenyl-3,5-di-2-pyridinyl-, 4,4-diethyl ester (CA INDEX NAME)

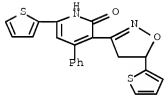


OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

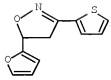
L5 ANSWER 26 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1976:75532 CAPLUS Full-text
DN 84:75532
OREF 84:12399a,12402a
TI Isomeric diketopiperazines
AU Stockel, Richard F.
CS Hydron Lab., Inc., New Brunswick, NJ, USA
SO Textile Research Journal (1975), 45(5), 433-4
CODEN: TRJOA9; ISSN: 0040-5175
DT Journal
LA English
AB A polemic. The low extents of methylolation of 2,5- and 2,3-piperazinedione (I) [13092-86-9] reported by H. Enders and G. Pusch (ibid. 1966, 36, 322-32) are in error.
IT 56632-04-3P 56632-05-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 56632-04-3 CAPLUS
CN 2(1H)-Pyridinone, 3-[5-(2-furanyl)-4,5-dihydro-3-isoxazolyl]-4-phenyl-6-(2-thienyl)- (CA INDEX NAME)



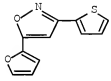
RN 56632-05-4 CAPLUS
CN 2(1H)-Pyridinone, 3-[4,5-dihydro-5-(2-thienyl)-3-isoxazolyl]-4-phenyl-6-(2-thienyl)- (CA INDEX NAME)



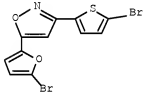
L5 ANSWER 27 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1975:170772 CAPLUS Full-text
DN 82:170772
OREF 82:27289a,27292a
TI Direction of enolization of some furyl-substituted β-diketones
AU Lesiak, Tadeusz; Nielek, Stefan
CS Inst. Chem., Copernicus Univ., Torun, Pol.
SO Khimiya Geterotsiklicheskikh Soedinenii (1975), (2), 162-6
CODEN: KGSSAQ; ISSN: 0132-6244
DT Journal
LA Russian
OS CASREACT 82:170772
GI For diagram(s), see printed CA Issue.
AB RCOCH:CHR1 (I; R = Ph, 2-thienyl, R1 = 2-furyl) treated with NH2OH (2:3) gave 40 and 57% RC(:NOH)CH2CH(NHOH)R1 (II) and 18 and 20% isoxazolines (III). Cyclization of II by AcOH gave 80 and 66% isoxazoles (IV). Treatment of I with NH2OH (1:2) gave 90% (RCOCH2CHR1)2NOH which on further treatment with NH2OH gave II and III.
IT 55367-31-2P 55367-32-3P 55367-34-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 55367-31-2 CAPLUS
CN Isoxazole, 5-(2-furanyl)-4,5-dihydro-3-(2-thienyl)- (CA INDEX NAME)



RN 55367-32-3 CAPLUS
CN Isoxazole, 5-(2-furanyl)-3-(2-thienyl)- (CA INDEX NAME)

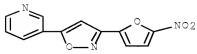


RN 55367-34-5 CAPLUS
CN Isoxazole, 5-(5-bromo-2-furanyl)-3-(5-bromo-2-thienyl)- (CA INDEX NAME)



L5 ANSWER 28 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1973:461409 CAPLUS Full-text
DN 79:61409
OREF 79:9847a,9850a
TI Stability of nitrofuran derivatives to cysteine, gastrointestinal contents, and light
AU Fujioka, Hiroshi; Nakanishi, Yutaka; Nakamura, Kiyoshi
CS Res. Dev. Div., Dainippon Pharm. Co., Ltd., Suita, Japan
SO Yakugaku Zasshi (1973), 93(5), 570-83
CODEN: YKKZAJ; ISSN: 0031-6903
DT Journal
LA Japanese
AB Nitrofuran derivs., such as 5-amino-4-cyano-3-(5-nitro-2-furyl)isoxazole (I) [15427-09-5] and (5-nitro-2-furfurylidenamino)urea [59-87-0], were decomposed by the SH group of cysteine [52-90-4] and by the contents of the digestive tract. The sensitivity of nitrofuran derivs. to cysteine decreased in the order: heterocyclic type > azomethine type > vinylog type. The therapeutic effect of vinylog type derivs. on typhoid-infected mice increased with increasing stability of drugs. Nitrofuran derivs. in aqueous solution were sensitive to sunlight and the decomposed products of drugs had no antibacterial activity.
IT 7197-35-5
RL: BIOL (Biological study)
(cysteine and intestinal contents and light effect on, antityphoidal activity in relation to)

RN 7197-35-5 CAPLUS
CN Pyridine, 3-[3-(5-nitro-2-furanyl)-5-isoxazolyl]- (CA INDEX NAME)

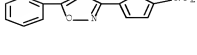


RL: PRP (Properties)
(stability of, uv light and mercapto group in relation to

L5 ANSWER 29 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1972:140776 CAPLUS Full-text
DN 76:140776
OREF 76:22859a,22862a
TI Antibacterial and antiprotozoal 3-(5-nitro-2-furyl)isoxazoline derivatives
IN Minami, Shinsaku; Matsumoto, Junichi; Shimizu, Masanao; Takase, Yoshiyuki
PA Dainippon Pharmaceutical Co., Ltd.
SO U.S., 10 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

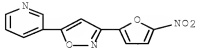
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 3631169	A	19711228	US 1966-581192	19660922 <--
PRAI US 1966-581192	A	19660922		

GI For diagram(s), see printed CA Issue.
AB Is-oxazoles (I, R1 = H, Ac, CN, Me, Et, CO2Et, R2 = H, Me, NH2, Ph, pyridyl, iso-Bu, Et) and isoxazolines (II, R1 = H, Me, R2 = H, Me, CH2Ph, CO2Et, Et, R3 = Et, Ph, H, Me, etc., R4 = H, CH2Cl, CH2CN, CO2Et, etc.; III, R1 = 1-pyrrolidinyl, morpholino, piperidino, NEt2) were prepared by treatment of either 5-nitro-2-furohydroxamoyl halide in the presence of base or of 5-nitrofuronitrile oxide with olefins. Dihydro compds. (II, III) were treated with acid to give I. Thus, treatment of 5-nitro-2-furohydroxamoyl chloride and 1-piperidinocyclohexene with Et3N gave III (R1 = piperidino) (IV). IV at min. inhibitory concentration 0.01-10 μg/ml was active against, e.g., Mycobacterium tuberculosis, Staphylococcus aureus, and Trichomonas vaginalis. About 75 addnl. I, II, and III were prepared similarly. Antimicrobial data for 21 addnl. I, II, and III were given.
IT 7194-23-2P 7197-35-5P 14730-45-1P
14734-52-2P 14734-58-8P 14734-59-9P
14734-60-2P 14775-91-6P 21706-51-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 7194-23-2 CAPLUS
CN Pyridine, 2-[3-(5-nitro-2-furanyl)-5-isoxazolyl]- (CA INDEX NAME)

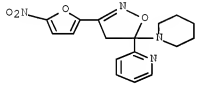


RN 7197-35-5 CAPLUS

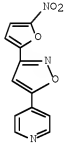
CN Pyridine, 3-[3-(5-nitro-2-furanyl)-5-isoxazolyl]- (CA INDEX NAME)



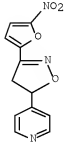
RN 14730-45-1 CAPLUS
CN Pyridine, 2-[4,5-dihydro-3-(5-nitro-2-furanyl)-5-(1-piperidinyl)-5-isoxazolyl]- (CA INDEX NAME)



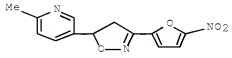
RN 14734-52-2 CAPLUS
CN Pyridine, 4-[3-(5-nitro-2-furanyl)-5-isoxazolyl]- (CA INDEX NAME)



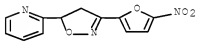
RN 14734-58-8 CAPLUS
CN Pyridine, 4-[4,5-dihydro-3-(5-nitro-2-furanyl)-5-isoxazolyl]- (CA INDEX NAME)



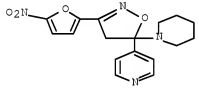
RN 14734-59-9 CAPLUS
CN Pyridine, 5-[4,5-dihydro-3-(5-nitro-2-furanyl)-5-isoxazolyl]-2-methyl- (CA INDEX NAME)



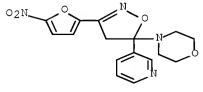
RN 14734-60-2 CAPLUS
CN Pyridine, 2-[4,5-dihydro-3-(5-nitro-2-furanyl)-5-isoxazolyl]- (CA INDEX NAME)



RN 14775-81-6 CAPLUS
CN Pyridine, 4-[4,5-dihydro-3-(5-nitro-2-furanyl)-5-(1-piperidinyl)-5-isoxazolyl]- (CA INDEX NAME)



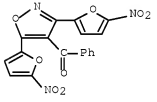
RN 21706-51-4 CAPLUS
CN Morpholine, 4-[4,5-dihydro-3-(5-nitro-2-furanyl)-5-(3-pyridinyl)-5-isoxazolyl]- (CA INDEX NAME)



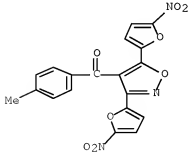
OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

L5 ANSWER 30 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1971:405599 CAPLUS Full-text
DN 75:5599
OREF 75:930h,931a

TI Heteroaromaticity. LII. Syntheses and reactions of α-acetylenic ketones containing a nitrofuran ring
AU Sasaki, Tadashi; Yoshioka, Toshiyuki
CS Fac. Eng., Nagoya Univ., Nagoya, Japan
SO Bulletin of the Chemical Society of Japan (1971), 44(3), 803-8
CODEN: BCSJA8; ISSN: 0009-2673
DT Journal
LA English
GI For diagram(s), see printed CA Issue.
AB The furyl acetylenes (I, II, and III) were prepared by condensation of 5-nitrofurfural with aryl Me ketones, followed by bromination and dehydrobromination. Addition of PhNH2 and cyclohexylamine to I gave IV and V, resp. Treatment of I and II with H2NOH, N2H4.H2O, semicarbazide, and benzamidine gave isoxazoles, pyrazoles, 1-ureidopyrazoles, and pyrimidines, resp. With PhCN oxide I gave 4-benzoyl-5-(5-nitro-2-furyl)-3-phenylisoxazole and furoxan, but heating I and II with 5-nitro-2-furonitrile oxide gave 4-benzoyl- and 4-p-toluoyl-3,5-bis(5-nitro-2-furyl)isoxazole, resp. With phenacylpyridinium ylide, I and II gave pyrrocolines (VI and VII).
IT 32023-60-2P 32023-61-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 32023-60-2 CAPLUS
CN Methanone, [3,5-bis(5-nitro-2-furanyl)-4-isoxazolyl]phenyl- (CA INDEX NAME)



RN 32023-61-3 CAPLUS
CN Methanone, [3,5-bis(5-nitro-2-furanyl)-4-isoxazolyl](4-methylphenyl)- (CA INDEX NAME)



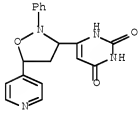
OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

L5 ANSWER 31 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1971:76406 CAPLUS Full-text
DN 74:76406

OREF 74:12403a,12406a
TI Tetrahydroisoxazole derivatives
IN Sasaki, Tadashi
PA Dainippon Pharmaceutical Co., Ltd.
SO Jpn. Tokkyo Koho, 2 pp.
CODEN: JAXXAD
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 45034588	B4	19701106	JP	19680316 <--

GI For diagram(s), see printed CA Issue.
AB A mixture of 0.3 g N-phenylorotaldoxime, 0.5 g 1-morpholino-1-cyclohexene, and 15 ml dioxane in a N atmospheric is heated 3 days at 85° in a sealed tube to give 0.36 g I, m. 202-3° (decomposition). Similarly prepared is II, m. 210-14° (decomposition) (MeOH).
IT 32465-88-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 32465-88-6 CAPLUS
CN 2,4(1H,3H)-Pyrimidinedione, 6-[2-phenyl-5-(4-pyridinyl)-3-isoxazolidinyl]-
(CA INDEX NAME)



L5 ANSWER 32 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1970:12709 CAPLUS Full-text
DN 72:12709
OREF 72:2316h,2317a
TI Antibacterial 3-(5-nitro-2-furyl)isoxazoles
PA Dainippon Pharmaceutical Co., Ltd.
SO Brit., 21 pp.
CODEN: BRXXAA
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI GB 1162257		19690820	GB 1966-41885	19660920 <--
DE 1670534			DE	
FR 6916			FR	
JP 46020386		19710000	JP	<--
PRAI JP		19650922		

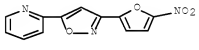
OS MARPAT 72:12709
GI For diagram(s), see printed CA Issue.
AB The title compds. possessing antibacterial and antiprotozoal properties were prepared by reacting a 5-nitro-2-furoyl halide oxime with an ethylenic

compound or with a β-keto ester or β-diketone. To a solution of 0.23 g Na in 6 ml MeOH was added 1.16 g AcCH2CO2Me and the resulting solution added dropwise to 1.9 g 5-nitro-2-furoyl chloride oxime (I) in 5 ml MeOH to give after 1 hr at room temperature 1.3 g II (R 1 = CO2Me, R2 = Me) (IIa), m. 121-2° (MeOH). Similarly were prepared the following II (R1, R2, and m.p. given): Ac, Me, 111-13°; CO2Et, Ph, 99-100°; CO2Et, H, 81-2°; Ac, H, 131-2°; CN, Ph, 177-9°. To a solution of 1.9 g I in 65 ml CHCl3 was added 1.5 g 1-pyrrolidinocyclohexene and 1 ml Et3N and the solution refluxed 0.5 hr to give 1.6 g III (R = pyrrolidino) (IV), m. 115-16° (EtOH). Similarly were prepared III (R = morpholino), m. 158-60°, and III (R = piperidino), m. 126-9°; HCl salt m. 160-2°. The following V were prepared analogously (R1, R2, R3, and m.p. given): Ph, piperidino, H (VI), 147-9°; Et H, Me, 152-3°; morpholino, 3-pyridyl, H, 195-7°; piperidino, H, Me, 104-6°; piperidino, H, Ph, 153-5° ; morpholino, H, PhCH2, 131-2°; pyrrolidino, iso-Bu, H, 116-19°; piperidino, Et, H, 133-6°; piperidino, 3-pyridyl, H, 160-3°; piperidino, 4-pyridyl, H, 180° (decomposition). 4,5-Dihydro-3-(5-nitro-2-furyl)-5-pyrrolidino-4,5-trimethylenisoxazole, m. 129-31°, was also prepared Heating a mixture of 0.72 g IV, 2.5 ml concentrated HCl, and 1 ml EtOH 10 m in on the steam bath and cooling gave 0.6 g III (R = H), m. 126-8° (aqueous EtOH), also obtained as a by-product in the preparation of IV. Similarly from VI was prepared V (R1 = R3 = H, R2 = Ph), m. 204-5°. The following V (R1 = H) were similarly prepared (R2, R3, and m.p. given): Et, Me, 110°; 3-pyridyl, H, 194-5°; H, Ph, 80-2°; H, Me, 146-9 °; iso-Bu, H, 99-100°; Et, H, 137-40°; 2-pyridyl, H, 240-3°; 4-pyridyl, H, 280-3°. Addition of 0.95 g I in 10 ml Et2O to 0.58 g 1-pyrrolidino-1-propene in 20 ml Et2O gave 0.3 g V (R1 = R2 = H, R3 = Me), m. 146-9°, directly. Reaction of 1.9 g I in 50 ml CHCl3 with 1.4 g 1-piperidino-1-butene and 1 g Me3N gave crude V (R1 = piperidino, R2 = H, R3 = Et) hydrolyzed without purification to V (R1 = R2 = H, R3 = Et), m. 102-3°. II (R1 = R2 = H), m. 167-9° (MeOH), was prepared (0.18 g) by heating a mixture of 0.2 g II (R1 = H, R2 = EtO) (VII), 1.5 ml concentrated HC l, and 2 ml EtOH on the steam bath 10 min or by stirring a mixture of 1.9 g I, 1 g vinyl acetate (VIII), 40 ml C6H6, and 1 g Et3N 1 hr at room-temperature then 10 min at 95°. 1-Piperidinoethylene could be used in place of VIII. To a solution of 0.95 g I in 10 ml Et2O was gradually added 0.5 g Et3N. Filtration and concentration of the filtrate gave 5-nitro-2-furonitrile oxide to which was added 0.5 g CH2:CHCO2Et in 20 ml C6H6 giving after 3 hr 0.87 g V (R1 = R3 = H, R2 = CO2Et), m. 89-91° (EtOH-iso-PrOH). Similarly were prepared V (R1 = R3 = H, R2 = Ac), m. 110-11° (from AcCH:CH2); VII, m. 85-6° (iso-PrOH) (from EtOCH:CH2); V (R1 = R3 = CO2Et, R2 = H) (from di-Et maleate), b0·001 160-5° (bath), n20D 1.5522; V (R1 = H, R2 = Ph, R3 = CO2Et), n20D 1.6068; V (R1 = R3 = H, R2 = CH2Cl), m. 101-2° (from acryloyl chloride). Other V prepared were (R1, R2, R3, and m.p. given): 2-pyridyl, H, H (VIIa), 138-9°; CONH2, H, H (VIIb), 220-1°; CH2CN, H, H, 147-8°; CONH2, Me, H, 203-5°; 2,3-epoxypropyloxy, H, H, 69-72°; 2-methyl-5-pyridyl, H, H, 144-5°; 4-pyridyl, H, H, 168-71°; Ph, H, H, 129-30°; Et2N, H, Et, 62-3°. Following similar methods were obtained: III (R = Et2N), m. 111-13°; 4,5-dihydro-4,4-dimethyl-3-(5-nitro-2-furyl)-5-piperidinooxazole, m. 121-4°; 3-(5-nitro-2-furyl)tetrahydropyrano-[3,2-d]-2-isoxazoline (from 3 ,4-dihydro-2H-pyran), m. 125-6°; 4,6-dioxo-3-(5-nitro-2-furyl)-5-phenylpyrrolidino[3,4-d]-2-isoxazoline (from N-phenylmaleimide), m. 245-6°; II (R1 = PhNHCO, R2 = Me) (from β-morpholino-N-phenylcrotonamide), m. 208-10°; II (R1 = CN, R2 = NH2) (VIIIa) (from malononitrile), m. 245-7°. Refluxing a mixture of 1 ml Ac2O, 12 ml (EtO)3CH, and 1 g VIIIa 4 hr gave 0.96 g II (R1 = CN, R2 = EtOCH:N), m. 121-2° (C6H6). II (R1 = CONH2, R2 = NH2) (IX), m. 219-21° (decomposition) (MeOH- Me2CO), was prepared by heating a mixture of 1 g VIIIa and 3 ml concentrated H2SO4 on the steam-bath 5 min. Treatment of 150 mg IX with 3 ml (EtO)3CH and 0.5 ml Ac2O under reflux 1.5 hr gave 130 mg 4,5-dihydro-3-(5-nitro-2-furyl)-4-oxoisoxazolo[5,4- d]pyrimidine, m. >250° (EtOHMe2CO). Refluxing a mixture of 0.5 g VIIIa, 20 ml isopropenyl acetate, and 0.2 g p-MeC6H4SO3H (X) 3 hr gave 0.3 g N-acetyl derivative (XI) of VIIIa, m. 237-9° (MeOH). Refluxing a mixture of 1 g VIIIa, 30 ml Ac2O, and

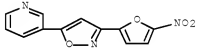
0.3 g X 2 hr gave 0.25 g 4,5-dihydro-6-methyl-3-(5-nitro-2-furyl)-4-oxoisoxazolo[5,4-d]pyrimidine (XII), m. >250°, and 140 mg XI. Under similar conditions, IX gave XII. Following the method used to prepare IIa, I and CNCH2CO2Et gave II (R1 = CO2Et, R2 = NH2), m. 204-6°; N-acetyl derivative m. 168-9°. A mixture of 130 mg VIIa, 110 mg N-bromosuccinimide, 2 mg Bz2O2 and 20 ml CCl4 was refluxed 10 hr and the basic product isolated by extraction with 15% HCl to give 70 mg II (R1 = H, R2 = 2-pyridyl), m. 240-3° (MeOH-Me2CO). II (R1 = H, R2 = 4-pyridyl), m. 280-3°, and II (R1 = H, R2 = Ph), m. 204-5°, were similarly prepared Many of the compds. described showed good activity in vitro against bacteria such as Staphylococcus aureus, Escherichia coli, Salmonella typhimurium, Shigella sonnei, Trichomonas vaginalis, etc. One of the most effective compds. in protecting mice against infections of Salmonella typhimurium was VIIb, active at 25-50 mg/kg orally or i.p.

IT 7194-23-2P 7197-35-5P 14730-45-1P
14734-52-2P 14734-58-8P 14734-59-9P
14734-60-2P 14775-81-6P 21706-51-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

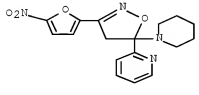
RN 7194-23-2 CAPLUS
CN Pyridine, 2-[3-(5-nitro-2-furanyl)-5-isoxazolyl]- (CA INDEX NAME)



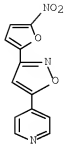
RN 7197-35-5 CAPLUS
CN Pyridine, 3-[3-(5-nitro-2-furanyl)-5-isoxazolyl]- (CA INDEX NAME)



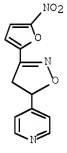
RN 14730-45-1 CAPLUS
CN Pyridine, 2-[4,5-dihydro-3-(5-nitro-2-furanyl)-5-(1-piperidinyl)-5-isoxazolyl]- (CA INDEX NAME)



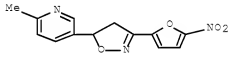
RN 14734-52-2 CAPLUS
CN Pyridine, 4-[3-(5-nitro-2-furanyl)-5-isoxazolyl]- (CA INDEX NAME)



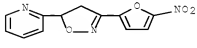
RN 14734-58-8 CAPLUS
CN Pyridine, 4-[4,5-dihydro-3-(5-nitro-2-furanyl)-5-isoxazolyl]- (CA INDEX NAME)



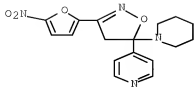
RN 14734-59-9 CAPLUS
CN Pyridine, 5-[4,5-dihydro-3-(5-nitro-2-furanyl)-5-isoxazolyl]-2-methyl- (CA INDEX NAME)



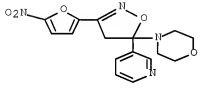
RN 14734-60-2 CAPLUS
CN Pyridine, 2-[4,5-dihydro-3-(5-nitro-2-furanyl)-5-isoxazolyl]- (CA INDEX NAME)



RN 14775-81-6 CAPLUS
CN Pyridine, 4-[4,5-dihydro-3-(5-nitro-2-furanyl)-5-(1-piperidinyl)-5-isoxazolyl]- (CA INDEX NAME)



RN 21706-51-4 CAPLUS
CN Morpholine, 4-[4,5-dihydro-3-(5-nitro-2-furanyl)-5-(3-pyridinyl)-5-isoxazolyl]- (CA INDEX NAME)

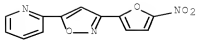


OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L5 ANSWER 33 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1969:524412 CAPLUS Full-text
DN 71:124412
OREF 71:23126h,23127a
TI 3-(5-Nitro-2-furyl)isoxazoles
IN Minami, Shinsaku; Matsumoto, Junichi; Shimizu, Masanao; Takase, Yoshiyuki
PA Dainippon Pharmaceutical Co., Ltd.
SO Jpn. Tokkyo Koho, 3 pp.
CODEN: JAXXAD
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 44023325	B4	19691003	JP	19661020 <--

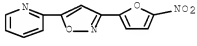
GI For diagram(s), see printed CA Issue.
AB The preparation of I, a bactericide and an antiseptic, is described. Thus, 0.3 g. 5-(diethylamino)-4,5-dihydro-4-ethyl-3-(5-nitro-2-furyl)isoxazole is refluxed 30 min. in 5 ml. 10% H2SO4 and 3 ml. EtOH to give 0.15 g. I (R = Et, R1 = H), m. 102-3° (iso-PrOH). Similarly prepared are the following I (R, R1, and m.p. given): Ph, H, 80-2°; H, Ph, 204-5°; Me, Et, 110°; H, Et, 137-40°; H, 2-pyridyl, 240-3°; H, H, 157-9°. Also is prepared I [(RR1 =) tetramethylene], m. 126-8°.
IT 7194-23-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 7194-23-2 CAPLUS
CN Pyridine, 2-[3-(5-nitro-2-furanyl)-5-isoxazolyl]- (CA INDEX NAME)



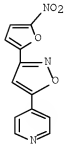
L5 ANSWER 34 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1969:512916 CAPLUS Full-text
DN 71:112916
OREF 71:21019a,21022a
TI 5-Substituted (5-nitro-2-furyl)isoxazoles
IN Minami, Shinsaku; Matsumoto, Junichi; Shimizu, Masanao; Takase, Yoshiyuki
PA Dainippon Pharmaceutical Co., Ltd.
SO Jpn. Tokkyo Koho, 2 pp.
CODEN: JAXXAD
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 44018298	B4	19690811	JP	19661020 <--

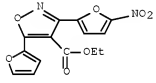
GI For diagram(s), see printed CA Issue.
AB Manufacture of I, useful as bactericide and antiseptic, by reaction of II with N-bromosuccinimide (III) is described. In an example, a mixture of 130 mg. II (R = 2-pyridyl), 110 mg. III, 20 ml. CCl4, and 2 mg. dibenzoyl peroxide is refluxed 10 hrs., evaporated, the residue extracted with 15% HCl, and the extract neutralized with NH4OH to give 70 mg. I (R = 2-pyridyl), m. 240-3° (MeOHMe2CO). Similarly prepared are the following I (R and m.p. given): 4-pyridyl, 280-3°; Ph, 204-5°.
IT 7194-23-2P 14734-52-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 7194-23-2 CAPLUS
CN Pyridine, 2-[3-(5-nitro-2-furanyl)-5-isoxazolyl]- (CA INDEX NAME)



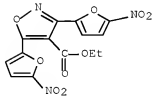
RN 14734-52-2 CAPLUS
CN Pyridine, 4-[3-(5-nitro-2-furanyl)-5-isoxazolyl]- (CA INDEX NAME)



L5 ANSWER 35 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1969:430383 CAPLUS Full-text
DN 71:30383
OREF 71:5605a,5608a
TI Isoxazole chemistry. I. 3- or 5-(5-Nitro-2-furyl)-5- or -3-methylisoxazoles
AU Micetich, Ronald G.
CS R. and L Mol. Res. Ltd., Edmonton, AB, Can.
SO Journal of Medicinal Chemistry (1969), 12(4), 611-16
CODEN: JMCMAR; ISSN: 0022-2623
DT Journal
LA English
GI For diagram(s), see printed CA Issue.
AB Several 5-methyl-3-(5-nitro-2-furyl) isoxazoles (I) and their flip isomers, 3-methyl-5-(5-nitro-2-furyl)isoxazoles, have been synthesized and their antibacterial, antitrichomonal, and lysogenic activities have been determined The antitrichomonal activity of several members of the dialkylaminoalkyl ester series is considerably better than that of 1-(2-hydroxyethyl)-2-methyl-5-nitroimidazole and these compds. are characterized by low toxicities. The N.M.R. spectrum is a convenient method of distinguishing between isomer pairs.
IT 22996-54-9P 22996-55-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 22996-54-9 CAPLUS
CN 4-Isoxazolecarboxylic acid, 5-(2-furanyl)-3-(5-nitro-2-furanyl)-, ethyl ester (CA INDEX NAME)

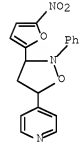


RN 22996-55-0 CAPLUS
CN 4-Isoxazolecarboxylic acid, 3,5-bis(5-nitro-2-furanyl)-, ethyl ester (CA INDEX NAME)



L5 ANSWER 36 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1969:87414 CAPLUS Full-text
DN 70:87414
OREF 70:16317a
TI Heteroaromaticity. XXIV. 1,3-Dipolar cycloaddition of

C-(5-nitro-2-furyl)-N-phenyl nitrone
AU Sasaki, Tadashi; Yoshioka, Toshiyuki; Izure, Iwao
CS Nagoya Univ., Nagoya, Japan
SO Bulletin of the Chemical Society of Japan (1968), 41(12), 2964-9
CODEN: BCSJA8; ISSN: 0009-2673
DT Journal
LA English
GI For diagram(s), see printed CA Issue.
AB C-(5-Nitro-2-furyl)-N-phenylnitrone (I) was prepared from 5-nitro-2-furfural and PhNHOH in an 80% yield. The 1,3-dipolar cycloaddn. reactions of I with various olefins were carried out, and the corresponding 5-substituted isoxazolidine derivs. were obtained. The structural elucidation of these products was made on the basis of the N.M.R. spectral data. Several observations support the theory that these reactions proceed via a concerted one-step process.
IT 21746-10-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 21746-10-1 CAPLUS
CN Pyridine, 4-[3-(5-nitro-2-furanyl)-2-phenyl-5-isoxazolidinyl]- (CA INDEX NAME)

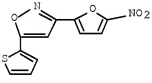


OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

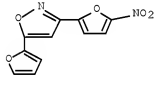
L5 ANSWER 37 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1969:68242 CAPLUS Full-text
DN 70:68242
OREF 70:12761a,12764a
TI Nitrofuryl pyrazoles and nitrofuryl isoxazoles
AU Haber, Ralph G.; Schoenberger, Eva
CS Res. Dep., Abic Ltd., Ramat-Gan, Israel
SO Israel Journal of Chemistry (1968), 6(5), 631-9
CODEN: ISJCAT; ISSN: 0021-2148
DT Journal
LA English
AB 5-Nitro-2-(RCOCH2CO-substituted)-furans (I) are converted into 3-(5-nitro-2-furyl)-5-(R-substituted)-isoxazoles (II) and 3-(R-substituted)-5-(R1-substituted)-1-(R2-substituted)-pyrazoles (III). Thus, a solution of 1 g. I (R = Ph) in 50 ml. MeOH is treated with 0.3 g. N2H4.H2O, and the mixture refluxed 5 hrs. to give 3-(5-nitrofuryl)-5-phenylpyrazole, m. 214-16°. A solution of 1 g. I (R = Ph) in 50 ml. iso-PrOH is treated with a solution of 3 g. HONH2.HCl in 10 ml. water, and the mixture refluxed 6 hrs. to give 0.9 g. 3-(5-nitrofuryl)-5-phenylisoxazole, m. 192-3°. Similarly prepared are the following II (R and m.p. given): Me, 133-5°; Et, 127-8°; p-tolyl, 195-6°; p-ClC6H4, 193-4°; p-BrC6H4, 209-10°; furyl, 201-2°; 5-nitrofuryl, 227-9°;

thienyl, 212-14°; 2-pyridyl, 227-9°; 3-pyridyl, 185-6°; 4-pyridyl, 261-3°; 2-pyridyl (N-oxide), 181-3°; and 3-pyridyl, 252-4°; the following III (R = 5-nitro-2-furyl, R2 = H) (R1 and m.p. given): Me, 221-2°; Et, 154-5°; p-tolyl, 226-8°; p-ClC6H4, 277-8°; furyl, 192-5°; 2-pyridyl, 260-2°; 3-pyridyl, 280-1°; 4-pyridyl, 290-2°; and 3-pyridyl (N-oxide), 298-9°; and the following III (R, R1, R2, and m.p. given): 5-nitrofuryl (or Me), Me (or 5-nitrofuryl), Me, 152-3°; 5-nitrofuryl (or Et), Et (or 5-nitrofuryl), Me, 108-9°; Me, 5-nitrofuryl, Ph, 75-7°; and 5-nitrofuryl (or Me), Me (or 5-nitrofuryl), HOCH2CH2, 131-2°. Also prepared, according to known methods, are the following I (R and m.p. given): Me, 115-16°; Pr, 74-5°; Ph, 161-3°; p-BrC6H4, 174-6° (hydrate); p-tolyl, 145-6°; 2-pyridyl, 141-2°; 3-pyridyl, 176-7°; and furyl, 177-9°.

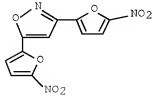
IT 7194-24-3P
RL: SPN (Synthetic preparation); PRP (Properties); PREP (Preparation)
(Nitrofuryl pyrazoles and nitrofuryl isoxazoles)
RN 7194-24-3 CAPLUS
CN Isoxazole, 3-(5-nitro-2-furanyl)-5-(2-thienyl)- (CA INDEX NAME)



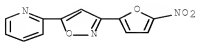
IT 5052-78-8P 5230-17-1P 7194-23-2P
7197-35-5P 14734-52-2P 21603-06-5P
21720-18-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 5052-78-8 CAPLUS
CN Isoxazole, 5-(2-furanyl)-3-(5-nitro-2-furanyl)- (CA INDEX NAME)



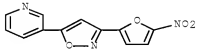
RN 5230-17-1 CAPLUS
CN Isoxazole, 3,5-bis(5-nitro-2-furanyl)- (CA INDEX NAME)



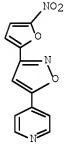
RN 7194-23-2 CAPLUS
CN Pyridine, 2-[3-(5-nitro-2-furanyl)-5-isoxazolyl]- (CA INDEX NAME)



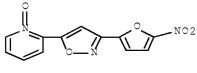
RN 7197-35-5 CAPLUS
CN Pyridine, 3-[3-(5-nitro-2-furanyl)-5-isoxazolyl]- (CA INDEX NAME)



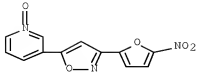
RN 14734-52-2 CAPLUS
CN Pyridine, 4-[3-(5-nitro-2-furanyl)-5-isoxazolyl]- (CA INDEX NAME)



RN 21603-06-5 CAPLUS
CN Pyridine, 2-[3-(5-nitro-2-furanyl)-5-isoxazolyl]-, 1-oxide (CA INDEX NAME)



RN 21720-18-3 CAPLUS
CN Pyridine, 3-[3-(5-nitro-2-furanyl)-5-isoxazolyl]-, 1-oxide (CA INDEX NAME)

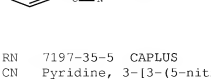


L5 ANSWER 38 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1969:57816 CAPLUS Full-text
DN 70:57816
OREF 70:10861a,10864a
TI 3-(5-Nitro-2-furyl)isoxazoles
IN Minami, Shinsaku; Matsumoto, Junichi; Fujimoto, Katsuro; Takase, Yoshiyuki
PA Dainippon Pharmaceutical Co., Ltd.
SO Jpn. Tokkyo Koho, 5 pp.
CODEN: JAXXAD
DT Patent
LA Japanese
FAN.CNT 1

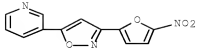
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 43026294	B	19681112	JP	19650609 <--

AB Manufacture of 4,5-(R3,R2-disubstituted)-3-(5-nitro-2-furyl)isoxazoles (I) via 4,5,5-(R3,R1,R2-trisubstituted)-3-(5-nitro-2-furyl)-2-isoxazolines (II) is described. Both I and II are bactericides and fungicides. In an example, 1.5 g. 1-pyrrolidinocyclohexene and 1 g. NEt3 are added to a solution of 1.9 g. 5-nitro-2-furylcarbohydroxamic acid chloride in 65 ml. CHCl3, the mixture refluxed 30 min., evaporated in vacuo, and EtOH added to the residue to give 1.6 g. II [R1 = pyrrolidino, (R2R3 =) tetramethylene] [IIa], m. 115-16° (EtOH). Similarly prepared are the following II (R1, R2, R3, and m.p. given): morpholino, (R2R3 =) tetramethylene, 158-60°; piperidino, (R2R3 =) tetramethylene, 126-9°; piperidino, Ph, H, 147-9°; morpholino, Et, Me, 152-3°; morpholino, H, H, 195-7°; pyrrolidino, (R2R3 =) trimethylene, 129-31°; piperidino, H, Me, 104-6°; piperidino, H, Ph, 153-5°; morpholino, H, H, 131-2°; pyrrolidino, iso-Bu, H, 116-19°; piperidino, Et, H, 133-6°; piperidino, 2-pyridyl, H, 160-3°; piperidino, 4-pyridyl, H, 180° (decomposition). IIa (0.72 g.) is heated 10 min. with a mixture of 2.5 ml. concentrated HCl and 1 ml. EtOH to give 0.6 g. I [(R2R3 =) tetramethylene], m. 126-8°. Similarly prepared are the following I, (R2, R3, and m.p. given): H, H, 204-5°; Et, Me, 110°; 3-pyridyl, H, 194-5°; H, Ph, 80-2°; H, Me, 146-9°; iso-Bu, H, 99-100°; Et, H, 137-40°; 2-pyridyl, H, 240-3°; 4-pyridyl, H, 280-3°.

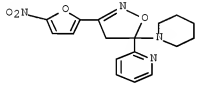
IT 7194-23-2P 7197-35-5P 14730-45-1P
14734-52-2P 14775-81-6P 21706-51-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 7194-23-2 CAPLUS
CN Pyridine, 2-[3-(5-nitro-2-furanyl)-5-isoxazolyl]- (CA INDEX NAME)



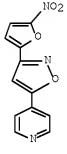
RN 7197-35-5 CAPLUS
CN Pyridine, 3-[3-(5-nitro-2-furanyl)-5-isoxazolyl]- (CA INDEX NAME)



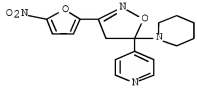
RN 14730-45-1 CAPLUS
CN Pyridine, 2-[4,5-dihydro-3-(5-nitro-2-furanyl)-5-(1-piperidinyl)-5-isoxazolyl]- (CA INDEX NAME)



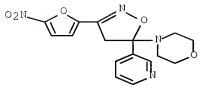
RN 14734-52-2 CAPLUS
CN Pyridine, 4-[3-(5-nitro-2-furanyl)-5-isoxazolyl]- (CA INDEX NAME)



RN 14775-81-6 CAPLUS
CN Pyridine, 4-[4,5-dihydro-3-(5-nitro-2-furanyl)-5-(1-piperidinyl)-5-isoxazolyl]- (CA INDEX NAME)

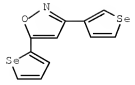


RN 21706-51-4 CAPLUS
CN Morpholine, 4-[4,5-dihydro-3-(5-nitro-2-furanyl)-5-(3-pyridinyl)-5-isoxazolyl]- (CA INDEX NAME)

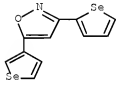


OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

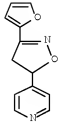
L5 ANSWER 39 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1969:37600 CAPLUS Full-text
DN 70:37600
OREF 70:7020h,7021a
TI Selenophene chemistry. LX. Direction of enolization in β-diketones of the selenophene series with the 3-selenienyl radical
AU Yur'ev, Yu. K.; Magdesieva, N. N.; Monakhova, A. T.
CS Mosk. Gos. Univ. im. Lomonosova, Moscow, USSR
SO Khimiya Geterotsiklicheskikh Soedinenii (1968), 4(4), 645-9
CODEN: KGSSAQ; ISSN: 0132-6244
DT Journal
LA Russian
GI For diagram(s), see printed CA Issue.
AB The following compds. of the type RCOCH:CHR1 (I) were obtained in the reaction of selenophene-2-carboxaldehyde with 3-acetoselenophene in MeOH in the presence of NaOH (R, R1, m.p., and % yield given) (C4H3Se = selenophene-yl) β-C4H3Se, α-C4H3Se (Ia), 89.5-91°, 87; β-C4H3Se, Ph (Ib), 107-8°, 87; α-C4H3Se, β-C4H3Se, 69-9.5°, 61.5; and Ph, β-C4H3Se, 88-9°, 77. Refluxing the ketones with NH2OH·HCl and 10% NaOH in EtOH 2 hrs. gave RC(:NOH)CH2CH(NHOH)R1 (II); II (R = β-C4H3Se, R1 = Ph) m. 186-7°; the others were oils. Ia and Ib refluxed in EtOH 4 hrs. with NH2OH·HCl and pyridine, gave isoxazoles (III) m. 107.5-109°, 94.5%, m. 121-1.5°, 92.5%, resp. All 4 II heated 2 hrs. at 125° gave the corresponding III, 91.5% (m. 107.5-109°), 85% (m. 120.5-1.5°), 59% (m. 104.5-106°), and 73.5% (m. 118.5-19°), resp. 2-Bromo-3-methylselenophene, b10 70°, was obtained in 74% yield from 3-methylselenophene and N-bromosuccinimide. Selenophene-3-carboxylic acid Me ester was reduced with LiAlH4 to give 90% selenophene-3-ylcarbinol, b10 110° (phenylurethane m. 160-1.5°), which with SO2Cl2 in CHCl3 at -15° gave 16% 3-chloromethylselenophene, b5 69-71.5°. Selenophene-3-carbonitrile reduced with LiAlH4 gave 39% selenophene-3-carboxaldehyde (IV), b4 81.5-82°; 2,4-dinitrophenylhydrazone m. 231-2°; semicarbazone m. 218-19°; thiosemicarbazone m. 157-8.5°. IV heated with hippuric acid and anhydrous AcONa, in Ac2O at 70° 1 hr. gave 59% 2-phenyl-4-(selenophene-3-ylmethylene)-5-oxazolone, m. 187-8° (C6H6). 9 references.
IT 21421-51-2P 21421-52-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 21421-51-2 CAPLUS
CN Isoxazole, 5-selenophene-2-yl-3-selenophene-3-yl- (CA INDEX NAME)



RN 21421-53-4 CAPLUS
CN Isoxazole, 3-selenophene-2-yl-5-selenophene-3-yl- (CA INDEX NAME)



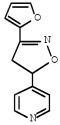
L5 ANSWER 40 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1968:443703 CAPLUS Full-text
DN 69:43703
OREF 69:8179a,8182a
TI 1,3-Dipolar cycloaddition of furancarbonitrile oxide with olefins
AU Sakai, Tadashi; Yoshioka, Toshiyuki
CS Nagoya Univ., Nagoya, Japan
SO Nippon Kagaku Zasshi (1967), 88(10), 1122-3
CODEN: NPKZAZ; ISSN: 0369-5387
DT Journal
LA Japanese
OS CASREACT 69:43703
GI For diagram(s), see printed CA Issue.
AB α-Chlorofuraldoxime (I) (0.12 g.) in 5 ml. CCl4 was treated with 0.13 ml. Et3N to give 3,4-di-2-furylfuroxan, isolated from the solution I (1.0 g.) in 40 ml. Et2O treated with 1.0 ml. Et3N in 10 ml. Et2O followed by 1.0 ml. PhCH:CH2 at the b.p. gave 1.5 g. 3-(2-furyl)-5-phenylisoxazoline, m. 91-2°. Similarly the following 5-substituted 3-(2-furyl)isoxazolines (II) were obtained from I (substituent, % yield and m.p. given): p-MeC6H4, 10, 92-3°; 4-pyridyl, 31, 113-14° (picrate m. 171-2°); and H2NCO, 29, 186-8°. Similar reaction with 2,5-dihydrothiophene 1,1-dioxide gave 5% III, m. 202-3°.
IT 18709-82-5P 18709-83-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 18709-82-5 CAPLUS
CN Pyridine, 4-[3-(2-furanyl)-4,5-dihydro-5-isoxazolyl]- (CA INDEX NAME)



RN 18709-83-6 CAPLUS
CN Pyridine, 4-[3-(2-furanyl)-4,5-dihydro-5-isoxazolyl]-, compd. with 2,4,6-trinitrophenol (1:1) (CA INDEX NAME)

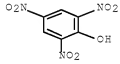
CM 1

CRN 18709-82-5
CMF C12 H10 N2 O2



CM 2

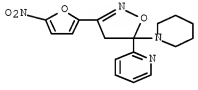
CRN 88-89-1
CMF C6 H3 N3 O7



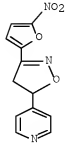
OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L5 ANSWER 41 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1967:432656 CAPLUS Full-text
DN 67:32656
OREF 67:6182h,6183a
TI 1,3-Dipolar cycloaddition of 5-nitro-2-furonitrile oxide
AU Minami, Shinsaku; Matsumoto, Junichi
CS Res. Lab., Dainippon Pharm. Co., Ltd., Osaka, Japan
SO Chemical & Pharmaceutical Bulletin (1967), 15(3), 366-9
CODEN: CPBTAL; ISSN: 0009-2363
DT Journal
LA English

OS CASREACT 67:32656
GI For diagram(s), see printed CA Issue.
AB Ia as an unstable liquid was prepared by adding Et3N to Ib. Treatment of Ia with an enamine, R1CH:CR2R3 (R3 = nitrogenous group), gave the following II (R1, R2, R3, m.p., and % yield given): (R1R2 =) (CH2)3, 1-tetrahydrofuryl, 129-32°, 72; (R1R2 =) (CH2)4, 1-tetrahydrofuryl, 126-9°, 69; H, Ph, 1-piperidyl, 147-9°, 68; Ph, H, 1-piperidyl (III), 153-5°, 35; Me, H, 1-piperidyl (IV), 104-6°, 82; Et, H, Et2N (V), 62-3°, 14; H, Et, 1-piperidyl, 133-6°, 34; Me, Et, morpholino, 152-3°, 58; H, 4-pyridyl, 1-piperidyl, 270°, 61; H, 3-pyridyl, morpholino, 195-7°, 51; H, 2-pyridyl, 1-piperidyl, 160-3°, 82. The structure of II was assigned by N.M.R. spectra. Acid treatment of II gave the following VI (R1, R2, m.p., and % yield given): (R1R2 =) (CH2)4, 126-9°, 71; H, Ph, 204-5°, 93; Ph, H, 80-2°, 50; Me, H, 146-9°, 60; Et, H, 102-3°, 68; H, Et, 137-40°, 85; Me, Et, 110°, 85; H, 4-pyridyl, 280-3°, 60; H, 3-pyridyl, 194-5°, 62; H, 2-pyridyl, 240-3°, 50. Treatment of I with R4CH:CHR5 gave the following VII (R4, R5, m.p., and % yield given): H, OEt, 86-7°, 71; H, Ac, 110-11°, 54; H, PH, 132-3°, 62; H, 4-pyridyl, 171-2°, 13; H, 2-methyl-5-pyridyl, 144-5°, 15; H, 2-pyridyl, 138-9°, 69; (R4R5 =) (CH2)3O (VIII), 125-6°, 15; (R4R5 =) CONPhCO (IX), 245-6°, 56. N.M.R. spectra of II and VII showed that H in 4 and 5 positions in dihydrooxazole rings for VIII and IX are cis, and for IV, V, and VI trans.
IT 14730-45-1P 14734-58-8P 14734-59-9P
14734-60-2P 14775-81-6P 21706-51-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and N.M.R. of)
RN 14730-45-1 CAPLUS
CN Pyridine, 2-[4,5-dihydro-3-(5-nitro-2-furanyl)-5-(1-piperidinyl)-5-isoxazolyl]- (CA INDEX NAME)

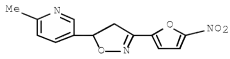


RN 14734-58-8 CAPLUS
CN Pyridine, 4-[4,5-dihydro-3-(5-nitro-2-furanyl)-5-isoxazolyl]- (CA INDEX NAME)

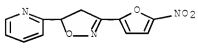


RN 14734-59-9 CAPLUS
CN Pyridine, 5-[4,5-dihydro-3-(5-nitro-2-furanyl)-5-isoxazolyl]-2-methyl-

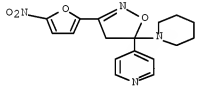
(CA INDEX NAME)



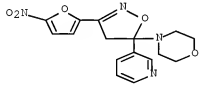
RN 14734-60-2 CAPLUS
CN Pyridine, 2-[4,5-dihydro-3-(5-nitro-2-furanyl)-5-isoxazolyl]- (CA INDEX NAME)



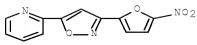
RN 14775-81-6 CAPLUS
CN Pyridine, 4-[4,5-dihydro-3-(5-nitro-2-furanyl)-5-(1-piperidinyl)-5-isoxazolyl]- (CA INDEX NAME)



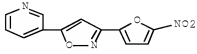
RN 21706-51-4 CAPLUS
CN Morpholine, 4-[4,5-dihydro-3-(5-nitro-2-furanyl)-5-(3-pyridinyl)-5-isoxazolyl]- (CA INDEX NAME)



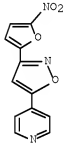
IT 7194-23-2P 7197-35-5P 14734-52-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 7194-23-2 CAPLUS
CN Pyridine, 2-[3-(5-nitro-2-furanyl)-5-isoxazolyl]- (CA INDEX NAME)



RN 7197-35-5 CAPLUS
CN Pyridine, 3-[3-(5-nitro-2-furanyl)-5-isoxazolyl]- (CA INDEX NAME)



RN 14734-52-2 CAPLUS
CN Pyridine, 4-[3-(5-nitro-2-furanyl)-5-isoxazolyl]- (CA INDEX NAME)



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L5 ANSWER 42 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1966:67826 CAPLUS Full-text
DN 64:67826
OREF 64:12682h,12683a-f
TI 3-(5-Nitro-2-furyl)pyrazoles and -isoxazoles
IN Haber, Ralph G.; Schoenberger, Eva
PA Abic Ltd.
SO 17 pp.
DT Patent
LA Unavailable
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	NL 6504329		19651006	NL 1965-4329	19650405 <--
PRAI	IL		19640405		

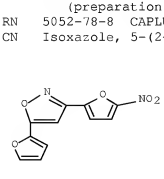
GI For diagram(s), see printed CA Issue.
AB A series of title compds. was prepared Difuroylmethane (10.2 g.) in 185 cc. dry CHCl3 treated below -20° with 14.7 cc. concentrated H2SO4 and then 2.8 cc. concentrated HNO3 in 25 cc. CHCl3 during 0.5 hr., stirred 1 hr. at -20°, treated with 70 g. crushed ice, and stirred again 2 hrs. yielded 6.09 g. yellowish I (R = 2-furoyl) (II), m. 173-7° (Me2CO). Similarly prepared were the following I (R, m.p., and % yield given) Bz (III), 158-9° (iso-PrOH), 26; p-ClC6H4CO, 175.5°, --; p-MeC6H4CO, 145-6°, 53,5; p-BrC6H4CO, 172-3° (iso-

PrOH), 25; 3-pyridoyl, 175°, --; 2-pyridoyl, 171°, --; 2-thenoyl, 219-21°, --. 2-Furoylacetylmethane (3.04 g.), b10 107-10°, in 125 cc. CHCl3 treated below -20° with 1.26 cc. 100% HNO3 and 6.02 cc. concentrated H2SO4, stirred 1.5 hrs. at -20°, diluted with iced H2O, and stirred 2 hrs. yielded 1.15 g. I (R = Ac) (IV), m. 116-17° (iso-PrOH). Similarly prepared were the following I (R and m.p. given): EtCO, 118-19°; CCl3CO, 191-3°; CF3CO, 180-3°. II (1.97 g.) in 70 cc. iso-PrOH treated with MeNHNH2 in 7 cc. H2O (from 1.5 g. sulfate) and refluxed 5 hrs. yielded 1.2 g. V (R = R' = Me), m. 142-4° (iso-PrOH). IV with PhNHNH2 gave similarly 70% V (R = Ph, R' = Me), m. 81.5-82°. III (1 g.) in 50 cc. boiling MeOH treated with 0.3 g. N2H4.H2O, refluxed 5 hrs. with stirring, and kept overnight gave the yellow V (R = H, R' = Ph) (VI), m. 216-17° (chromatographed on Al2O3. 3-(2-Furyl)-5-phenylpyrazole (2.09 g.) in 37 cc. CHCl3 treated at -20° with 3 cc. concentrated H2SO4 and then 0.56 cc. concentrated HNO3 in 5 cc. CHCl3, kept 1 hr. at -20°, diluted with 10 g. ice, and kept overnight yielded 1.6 g. light yellow VI, m. 213-15°. 3,5-Difurylpyrazole (3.3 g.) in 65 cc. CHCl3 gave similarly with 4.85 cc. concentrated H2SO4 and 0.95 cc. concentrated HNO3 in 8.5 cc. CHCl3 V (R = H, R' = 2-furyl), m. 191-2.5° (aqueous Me2CO). 3-Furyl-5-(p-chlorophenyl)pyrazole (2.45 g.) gave similarly 1.55 g. V (R = H, R' = p-ClC6H4), m. 275-6° (MeOH). Similarly prepared were the following I (R = H) (R' and m.p. given): p-MeC6H4, 231-3°; Me, 216.5-17.5°; 2-pyridoyl, 259-9.5°; 3-pyridoyl, 284°. II (1.8 g.) in 50 cc. iso-PrOH and 2.9 g. NH2OH.HCl in 10 cc. H2O refluxed 5 hrs. yielded 1.21 g. yellow VII (R = 2-furyl) (VIII), m. 202.5° (iso-PrOH). 3,5-Difurylisoxazole (IX) (3 g.) in 100 cc. dry CHCl3 treated at -20° with 1.7 cc. concentrated HNO3 in 10 cc. CHCl3 and 8.8 cc. concentrated H2SO4 gave 3 g. light yellow VII (R = 5-nitro-2-furyl) (X), m. 224.5° (Me2CO). IX nitrated similarly but with only 50% nitrating agent gave a mixture of VIII and 3-furyl-5-(5-nitro-2-furyl)isoxazole, m. 175°, which further nitrated gave X. IV (1.97 g.) in 50 cc. MeOH refluxed 2 hrs. with 2 g. NH2OH.HCl in 10 cc. H2O gave 1.8 g. brown VII (R = Me) (XI), m. 132-2.5° (iso-PrOH). 3-Furyl-5-methylisoxazole (2.83 g.) with 6 cc. concentrated H2SO4 and 1.25 cc. concentrated HNO3 at -20° gave 2.2 g. XI, m. 132-2.5° (iso-PrOH). Similarly prepared was VII (R = Et), m. 128-9°. III (1 g.) in 50 cc. iso-PrOH refluxed 6 hrs. with 3 g. NH2OH.HCl in 10 cc. H2O gave 1 g. VII (R = Ph) (XII), m. 193-4° (iso-PrOH). 3-(2-Furyl)-5-phenylisoxazole (2.75 g.) in 48 cc. CHCl3 treated at -20° with 3.82 cc. concentrated H2SO4 and 0.73 cc. HNO3 in 6.5 cc. CHCl3 yielded 55% XII. Similarly prepared were the following VII (R and m.p. given): p-ClC6H4, 195°; p-BrC6H4, 209-10°; p-MeC6H4, 196-6.5°; thienyl, 189.5-91°; 4,3-MeO(O2N)C6H3, 235-6°; 2-pyridyl, 234-5°; 3-pyridyl, 193-4°. The activity of the V and VII against Staphylococcus aureus, Shigella sonnei and S. flexneri, Escherichia coli, Salmonella, Candida albicans, and Pseudomonas aeruginosa was determined; the results are tabulated.

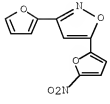
IT 5052-78-8P, Isoxazole, 5-(2-furyl)-3-(5-nitro-2-furyl)-
5230-16-0P, Isoxazole, 3-(2-furyl)-5-(5-nitro-2-furyl)-
5230-17-1P, Isoxazole, 3,5-bis(5-nitro-2-furyl)-
7194-23-2P, Pyridine, 2-[3-(5-nitro-2-furyl)-5-isoxazolyl]-
7194-24-3P, Isoxazole, 3-(5-nitro-2-furyl)-5-(2-thienyl)-
7197-25-5P, Pyridine, 3-[3-(5-nitro-2-furyl)-5-isoxazolyl]-
RL: PREP (Preparation)
(preparation of)

RN 5052-78-8 CAPLUS

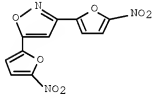
CN Isoxazole, 5-(2-furanyl)-3-(5-nitro-2-furanyl)- (CA INDEX NAME)



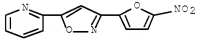
RN 5230-16-0 CAPLUS
CN Isoxazole, 3-(2-furanyl)-5-(5-nitro-2-furanyl)- (CA INDEX NAME)



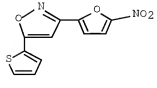
RN 5230-17-1 CAPLUS
CN Isoxazole, 3,5-bis(5-nitro-2-furanyl)- (CA INDEX NAME)



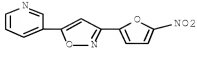
RN 7194-23-2 CAPLUS
CN Pyridine, 2-[3-(5-nitro-2-furanyl)-5-isoxazolyl]- (CA INDEX NAME)



RN 7194-24-3 CAPLUS
CN Isoxazole, 3-(5-nitro-2-furanyl)-5-(2-thienyl)- (CA INDEX NAME)



RN 7197-35-5 CAPLUS
CN Pyridine, 3-[3-(5-nitro-2-furanyl)-5-isoxazolyl]- (CA INDEX NAME)

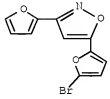


L5 ANSWER 43 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1965:463027 CAPLUS Full-text
DN 63:63027
OREF 63:11537b-g
TI Synthesis of pyridyl derivatives of 5-pyrazolone
AU Kuczynski, Leonard; Wykret, Leszek
CS Akad. Med., Wroclaw, Pol.
SO Dissertationes Pharmaceuticae (1964), 16(4), 485-93
CODEN: DIPHAH; ISSN: 0301-1615
DT Journal
LA Polish
AB The influence of the α-, β-, and γ-pyridyl, and Ph substituents in positions 3 and 4 on the pharmacol. activity of 5-pyrazolone derivatives were examined The phenylhydrazone (Ia) of picolinoylphenylacetic acid Me ester (I), m. 142-4° (MeOH), was obtained in 89% yield when the starting ester I (5 g.) in 50 ml. MeOH was refluxed with 3 g. PhNHNH2.HCl in 15 ml. H2O and 4 ml. C5H5N 1 hr. Nicotinoylphenylacetamide (IIa) (1.2 g.) kept with 0.7 g. PhNHNH2 at room temperature 24 hrs. yielded nicotinoylphenylacetamide phenylhydrazone (IIIa), m. 207-9° (ether-MeOH). Similarly from isonicotinoylphenylacetamide (IIb), its phenylhydrazone (IIIb), m. 241-3° (ether-MeOH), was obtained. IIa (12 g.) boiled with 6 g. PhNHNH2 in 30 ml. iso-BuOH during the continuous passage of N gave in 90.2% yield 1,4-diphenyl-3-(3-pyridyl)-5-pyrazolone (IVa), m. 221-3° (MeOH); IVa picrate m. 208-11° (EtOH). Similarly from IIb, 1,4-diphenyl-3-(4-pyridyl)-5-pyrazolone (IVb), m. 235-7° (EtOH) (87.9% yield), was obtained; IVb picrate m. 246-9° (EtOH). 1,4-Diphenyl-3-(2-pyridyl)-5-pyrazolone (IVc), m. 188-9° (Me2CO), was prepared in 82% yield when 3.5 g. Ia in 30 ml. iso-BuOH or PhMe was refluxed 4 hrs. and then the mixture concentrated In this same way IIIa or IIIb yielded IVa or IVb, resp. IVc was also obtained in 78% yield when 4.8 g. picolinoylphenylacetamide (IIc) in 4 ml. PhNHNH2 was heated 2 hrs. at 100-10°. I (5 g.) and 3 g. PhNHNH2 in 20 ml. iso-BuOH refluxed 3 hrs. yielded 4.6 g. IVc. IIa (9.6 g.) in 50 ml. EtOH heated with 5 g. semicarbazide hydrochloride in 25 ml. H2O and 7 g. AcONa in 20 ml. H2O or 5 ml. C5H5N gave in 89.2% yield 3-(3-pyridyl)-4-phenyl-5-pyrazolone (Va), m. 255-7° (EtOH); Va picrate m. 231-5° (EtOH). Similarly from IIb or IIc 3-(4-pyridyl)-4-phenyl-5-pyrazolone (Vb), m. 269-71° (EtOH), in 90.6% yield, or 3-(2-pyridyl)-4-phenyl-5-pyrazolone (Vc), m. 228-30° (MeOH), in 78.7% yield were obtained; Vb picrate m. 229-30° (EtOH) and Vc picrate m. 210° (EtOH). The above 3-pyridyl-4-phenyl-5-pyrazolones (V) were also obtained from 9.6 g. corresponding amide (II) and 3 g. thiosemicarbazide heated together 4 hrs. at 140-80°. Amides (II) (24 g.) in 100 ml. C5H5N refluxed with 11 g. N2H4.HCl 4 hrs. gave corresponding Va, Vb, and Vc. Similarly Vc was obtained from I. 1-Benzoyl-3-(3-pyridyl)-4-phenyl-5-pyrazolone (VIa), m. 194-6° (MeOH), was obtained in 82.8% yield when 2.4 g. Va was heated with 2 ml. BzCl 1 hr. at 70-5°. Similarly 1-benzoyl-3(4-pyridyl)-4-phenyl-5-pyrazolone (VIb), m. 193-5° (EtOH), in 85.7% yield and 1-benzoyl-3-(2-pyridyl)-4-phenyl-5-pyrazolone (VIc), m. 192-3.5° (MeOH) (77.1% yield), were obtained from Vb and Vc, resp. 1-Acetyl-3-(3-pyridyl)-4-phenyl-5-pyrazolone (VIIa) m. 225-7° (EtOH) was prepared in 71.4% yield from 2.4 g. Va in 20 ml. Ac2O and 2.5 ml. dry C5H5N boiled 3 hrs. In this same manner Vb and Vc gave 1-acetyl-3-(4-pyridyl)-4-phenyl-5-pyrazolone (VIIb), m. 207-9° (EtOH) (78.5% yield), and 1-acetyl-3-(2-pyridyl)-4-phenyl-5-

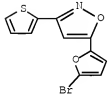
pyrazolone (VIIc), m. 135-7° (EtOH) (85.7% yield), resp. The benzoyl derivs. (VI) and acetyl derivs. (VII) (2 g.) heated 1 hr. with 50 ml. 5% NaOH in 70% EtOH yielded the starting 3-pyridyl-4-phenyl-5-pyrazolones (V).

IT 2976-11-6 3120-82-9
(Derived from data in the 7th Collective Formula Index (1962-1966))

RN 2976-11-6 CAPLUS
CN Isoxazole, 5-(5-bromo-2-furanyl)-3-(2-furanyl)- (CA INDEX NAME)



RN 3120-82-9 CAPLUS
CN Isoxazole, 5-(5-bromo-2-furanyl)-3-(2-thienyl)- (CA INDEX NAME)



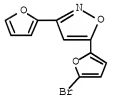
L5 ANSWER 44 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1965:463026 CAPLUS Full-text
DN 63:63026
OREF 63:11536g-h,11537a-b
TI Furylalkynes. V. Synthesis of furyl-substituted pyrazoles and isoxazoles from derivatives of furylacetylene
AU Vereshchagin, L. I.; Korshunov, S. P.; Skoblikova, V. I.; Lipovich, T. V.
CS State Univ., Irkutsk
SO Zhurnal Organicheskoi Khimii (1965), 1(6), 1089-94
CODEN: ZORKAE; ISSN: 0514-7492
DT Journal
LA Russian
AB cf. CA 63, 6943g. 1-Phenyl-3-(2-furyl)-1-propyn-3-ol added to MnO2 suspended in C6H6 and refluxed with gradual removal of H2O as an azeotrope gave 85.1% 1-phenyl-3-(2-furyl)-1-propyn-3-one (I), m 52°, bl 150-1° (2,4-dinitrophenylhydrazone m. 134°). Reduction with H over Raney Ni gave 91% 1-phenyl-3-(2-furyl)-3-propanone, b0.5 122°, n19D 1.5680. EtMgBr and PhC.tplbond.CH heated 5 hrs., then treated with 5-bromofurfural overnight gave after an aqueous treatment a crude solution of 1-phenyl-3-(5-bromo-2-furyl)-1-propyn-3-ol, which with MnO2 as above in 10 hrs. at room temperature gave 42.7% 1-phenyl-3-(5-bromo-2-furyl)-1-propyn-3-one (II), m. 68° (2,4-dinitrophenylhydrazone m. 234°). Similar reaction with 5-iodofurfural failed in Et2O, while in tetrahydrofuran it gave a very unstable 1-phenyl-3-(5-iodo-2-furyl)-1-propyn-3-one, m. 130° (2,4-dinitrophenylhydrazone m. 197°). I and N2H4.H2SO4 in hot EtOH gave in 20 min. 3-phenyl-5-(2-furyl)pyrazole, m. 172°;

II gave similarly 95% 3-phenyl-5-(5-bromo-2-furyl)pyrazole, m. 177-9°. The furylacetylenic ketones above and semicarbazide gave unidentified products as follows: I gave C14H11N3O2 m. 145°; II gave C9H8BrN3O2 m. 162-4° 1-(5-bromo-2-furyl)-3-(2-furyl)-1-propyn-5-one gave C12H8BrN3O5 m. 123-5°. The furylacetylenic ketones and HONH2.HCl in hot aqueous EtOH gave the following: 3-(2-furyl)-5-phenylisoxazole m. 77-9°; 3-(5-bromo-2-furyl)-5-phenylisoxazole m. 96.5-7°; 3-phenyl-5-(5-bromo-2-furyl)isoxazole m. 129-31°; 3-(2-furyl)-5-(5-bromo-2-furyl)isoxazole m. 82-3°; 3-(2-thienyl)-5-(5-bromo-2-furyl)isoxazole m. 141-3°; 3-methyl-5-(5-bromo-2-furyl)isoxazole m. 15-20°, bl 105-10°. Furfurylideneacetophenone heated with HONH2.HCl in aqueous alc. KOH 4 hrs. gave 71.4% 3-phenyl-5-(2-furyl)isoxazoline m. 52-3°, which with Cr2O3 in AcOH gave 3-phenyl-5-(2-furyl)isoxazole m. 79-81°. Ir spectra of the products were reported.

IT 2976-11-6P, Isoxazole, 5-(5-bromo-2-furyl)-3-(2-furyl)-
3120-82-9P, Isoxazole, 5-(5-bromo-2-furyl)-3-(2-thienyl)-
RL: PREP (Preparation)
(preparation of)

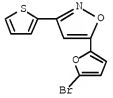
RN 2976-11-6 CAPLUS

CN Isoxazole, 5-(5-bromo-2-furanyl)-3-(2-furanyl)- (CA INDEX NAME)



RN 3120-82-9 CAPLUS

CN Isoxazole, 5-(5-bromo-2-furanyl)-3-(2-thienyl)- (CA INDEX NAME)



L5 ANSWER 45 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1964:404201 CAPLUS Full-text

DN 61:4201

OREF 61:648g-h,649a-c

TI Chemistry of selenophene. I. Orientation of enolization of ω-(2-thenoyl)-2-acetoselenophene and ω-benzoyl-2-acetothiophene

AU Yur'ev, Yu. K.; Magdesieva, N. N.; Titov, V. V.

CS M. V. Lomonosov State Univ., Moscow

SO Zhurnal Obshchei Khimii (1964), 34(4), 1078-81
CODEN: ZOKHA4; ISSN: 0044-460X

DT Journal

LA Unavailable

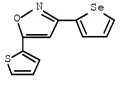
GI For diagram(s), see printed CA Issue.

AB Treatment of 6.3 g. 2-acetylthiophene and 8 g. selenophene-2-carboxaldehyde with MeONa-MeOH 3 days gave 56% 2-(2-selenophene-ylmethyleneacetyl)thiophene, m. 96-6.5°, which refluxed 2 hrs. with HONH2.HCl in aqueous alc. NaOH, then kept 1 day, gave 3-(2-thienyl)-5-(2-selenophene-yl)isoxazole, m. 88.5-89°, after heating the crude oily product with AcOH 2 hrs. Similarly, 2-acetylselenophene and thiophene-2-carboxaldehyde in MeOH-MeONa gave 51% 2-(2-thenylideneacetyl)selenophene, m. 74-5°, which with HONH2 as above gave 45% 5-(2-thienyl)-3-(2-selenophene-yl)isoxazole (I), m. 91-2°, after refluxing the intermediately formed 1-(2-selenophene-yl-carbonyl)-2-hydroxyamino-2-(2-thienyl)ethane oxime, m. 60-92°, with AcOH 2 hrs. I formed in 60% yield from 2-(2-thenoyl-acetyl)selenophene and HONH2.HCl refluxed 4 hrs. in EtOH-pyridine. 2-(Benzylideneacetyl)thiophene and HONH2.HCl in aqueous alc. NaOH refluxed 3 hrs., diluted, extracted with Et2O, the aqueous layer aerated, and neutralized with HCl gave 28.5% 1-(2-thenoyl)-2-hydroxyamino-2- phenylethane oxime, m. 155-6.5°, which refluxed 4.5 hrs. in AcOH gave 72% 5-phenyl-3-(2-thienyl)-isoxazole, m. 96-7°. ω-(2-Thenylidene)acetophenone treated as above with HONH2 gave 16.5% 1-benzoyl-2-hydroxyamino-2-(2-thienyl)ethane oxime, m. 167-8°, which refluxed 3 hrs. in AcOH gave 58% 3-phenyl-5-(2-thienyl)isoxazole, m. 96-7°, also formed by heating 2-(benzoylacetyl)thiophene with HONH2.HCl in EtOH-pyridine 4 hrs., followed by 1 day at room temperature; the residues gave 19% 2-(benzoylacetyl)thiophene monoxime, m. 163-4.5°.

IT 94624-80-3P, Isoxazole, 3-selenophene-2-yl-5-(2-thienyl)-
94624-81-4P, Isoxazole, 5-selenophene-2-yl-3-(2-thienyl)-
RL: PREP (Preparation)
(preparation of)

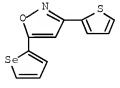
RN 94624-80-3 CAPLUS

CN Isoxazole, 3-selenophene-2-yl-5-(2-thienyl)- (CA INDEX NAME)



RN 94624-81-4 CAPLUS

CN Isoxazole, 5-selenophene-2-yl-3-(2-thienyl)- (CA INDEX NAME)



L5 ANSWER 46 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1962:38458 CAPLUS Full-text

DN 56:38458

OREF 56:7292e-i,7293a-d

TI Synthesis of linear octa isoxazoles

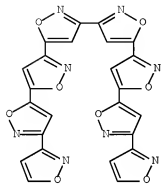
AU Gaudiano, Giorgio; Ricca, Aldo; Quilico, Adolfo

CS Politecnico, Milan

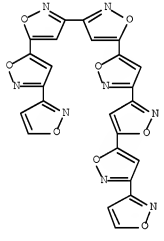
SO Gazzetta Chimica Italiana (1960), 90, 1253-65

CODEN: GCITA9; ISSN: 0016-5603
DT Journal
LA Unavailable
GI For diagram(s), see printed CA Issue.
AB cf. CA 55, 17622g. -By the use of a previously established technique, the 5,5'difonnyl-3,3'-diisooxazole tetracetal (I), C16H2406N2, needles m. 66-7° (hexane), was prepared with 48% yield by adding, with continuous cooling and stirring, 25.5 g. HC.tplbond.CCH(OEt)2 (Claisen, Ber. 31, 1022(1898)) in 75 ml. tetrahydrofuran (THF) to the reaction product of 50 g.Mg and 22.8 EtBr in 100 ml. THF, gradually (20 min.) heating to a boil, cooling over ice water, adding 7.85 g. dichloroglyoxime (Ponzio, CA 25, 80) in 30 ml. THF in about 15 min., letting stand 20 hrs., extracting with Et2O after diluting with crushed ice and NH4OAc, and working up the Et2O extract 5,5'-Diformyl-3,3'diisoxazole (II), needles, m. 159-60° (CH6), was obtained by hydrolysis of 1.5 g. I in 15 ml. EtOH, 20 ml. H2O, and 2 ml. concentrated HCl. The dioxime (III) of II, needles, m. 315° (decomposition) (pyridine), was prepared with 84% yield by refluxing 1 hr. 4.3 g. I in 20 ml. EtOH with 2 g. HONH2.HCl (in 15 ml. H2O); III was sublimated in vacuo. Dichlorodioxime (IV) of II, needles, m. 265° (decomposition), was prepared with 65% yield by suspending 0.9 g. III in 80 ml. aqua regia 1 day, filtering off the precipitate by suction, washing with H2O, and recrystg. from dioxane (1 mole of the solvent was removed from IV by drying over P2O5 in a pistol). 3,3', 5', 5'', 3'', 5''', 3''', 3'''', 5'''', 3''''', 5''''', 5'''''', 3''''''', 3''''''' - Octaisoxazole (V), not m. at 400°, resulted with 94% yield by treating 0.33 g. Mg with 1.45 g. EtBr in 10 ml. THF, adding 2.0 g. 5-ethynyl-3,3'diisoxazole (CA 54, 5618c) in 10 ml. THF, heating 1 hr. to 40-50°, cooling, adding drop by drop 0.9 g. IV in THF, agitating 2 hrs. more, keeping overnight, decomposing with ice and HCl, and collecting the precipitate The dioxime of 3,3'-diformyl-5,5'-diisoxazole (VI), (Gruenanger and Fabbri, CA 54, 3380f), small prisms, m. 224° (from EtOH), was similarly prepared with 20% yield by treating 16.5 g. Mg and 75 g. EtBr in 300 ml. THF with cooling and stirring, adding 14.4 g. diacetylene in 50 ml. THF, stirring 3.5 hrs., cooling with ice water, adding 23.5 g. β-monochloroglyoxime in 60 ml. THF in 15 min., stirring until too gelatinous to continue, keeping 16 hrs. at room temperature, and extracting with Et2O after decomposing with ice and HCl. VI sublimed in vacuo. From the alc. mother liquors, 3-formyl-5-ethynylisoxazole oxime (VII), C6H4O2N2, needles (or prisms, by sublimation), m. 138-9°, was isolated as a by-product. Dichlorodioxime (VIII) of VI, microcryst, powder not m. at 360° (decomposed above 220°), was prepared by treating the VI dioxime in aqua regia, as described above for IV. 3,3', 5', 5prime;', 3'', 3''', 5''', 5'''', 3''''', 3''''', 5''''', 5''''''', 3''''''', 3'''''''- Octaisoxazole (IX), not m. at 300°, was prepared in a manner analogous to that described for V, from VIII and the BrMg deriv, of 5-ethynyl-3,3'-diisoxazole, with a 27% yield. Oxidation of VII with KMnO4 yielded 3,5-isoxazoledicarboxylic acid, microcryst, powder, m. 212° (sublimes in vacuo at 130°) (CA 44, 4461f). Mild CrO3 oxidation yielded 5-ethynylisoxazole-3-carboxylic acid, shiny needles, m. 154-6° (sublimated in vacuo). An insol. brown product, probably a linear polyisoxazole (X), was obtained by treating 33 g. dichloroglyoxime with the BrMg derivative of diacetylene, by methods described above, with 5,5'-diethynyl-3,3'-diisoxazole (XI), m. 129-31°, as a by-product. X did not m. at 300°, was insol. in water or solvents (as were V and IX), and stable to oxidation by KMnO4 or CrO3. XI also resulted by treating 16.3 g. diacetylene in 120 ml. THF with a solution prepared from 7.6 g. Mg and 34.4 g. EtBr in 200 ml. THF, as described earlier, and then adding in 11 min. at -15°, 11.8 g. dichloroglyoxime in 50 ml. THF.
IT 88925-52-0P, 3,3':5',5'':3'',5''':3''',3''''':5'''',3''''':5''''' ,5''''''':3''''''',3'''''''-Octiisoxazole 90229-17-7P, 3,3':5',5'':3'',3''':5''',5'''':3''',3''''':5''''',5''''''':3''''''',3''''' ''-Octiisoxazole
RL: PREP (Preparation)

(preparation of)
RN 89925-52-0 CAPLUS
CN 3,3':5',5'':3'',5''':3''',3'''':5'''',3''''':5''''',5'''''':3'''''',3''''''
''-Octiisoxazole (7CI) (CA INDEX NAME)



RN 90229-17-7 CAPLUS
CN 3,3':5',5'':3'',3''':5''',5'''':3'''',3''''':5''''',5'''''':3'''''',3''''''
''-Octiisoxazole (7CI) (CA INDEX NAME)



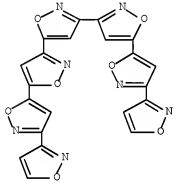
L5 ANSWER 47 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1961:93455 CAPLUS Full-text
DN 55:93455
OREF 55:17622i,17623a-b
TI Some new 2-arylamino-3-aryl-5-methyl-4-thiazolidones and
3-aryl-5-methyl-2,4-thiazolidones
AU Bhargava, P. N.; Ram, Phulgan
CS Hindu Univ., Banaras
SO Journal of the Indian Chemical Society (1961), 38, 127-9
CODEN: JICSAH; ISSN: 0019-4522
DT Journal
LA Unavailable
GI For diagram(s), see printed CA Issue.

AB The aryliminothiazolidones were prepared from a diarylurea and MeCHClCO2H and fused NaOAc in EtOH by refluxing for 5 hrs. to give RN.CO.CHMe.S.C:NR (R and m.p. given): Ph, 105°; o-tolyl, 110°; m-tolyl, 98°; p-tolyl, 160°; m-ClC6H4, 122°; o-anisyl, 150°; o-phenetyl, 130°; p-phenetyl, 108°; β-naphthyl, 184°. The arylthioazolidones were prepared from a diarylthiourea and MeCHClCO2H by refluxing in glacial HOAc for 3 hrs. to give RN.CO.CHMe.S.CO (R and m.p. given): Ph, 80°; o-tolyl, 105°; m-tolyl, 120°; p-tolyl, 140°; m-ClC6H4, 120°; p-ClC6H4, 160°; o-anisyl, 125°; p-anisyl, 180°; o-phenetyl, 130°; p-phenetyl, 70°; α-naphthyl, 72°; β-naphthyl, 69°.

IT 122273-42-1
(Derived from data in the 6th Collective Formula Index (1957-1961))

RN 122273-42-1 CAPLUS

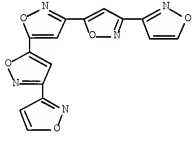
CN 3,3':5',5'':3'',3''':5''',3'''':5'''',5''''':3''''',3''''''-Septiisoxazole (6CI) (CA INDEX NAME)



IT 110357-84-1P, 3,3':5',3'':5'',5''':3''',3''''-Quinqueisoxazole
RL: PREP (Preparation)
(preparation of)

RN 110357-84-1 CAPLUS

CN 3,3':5',3'':5'',5''':3''',3''''-Quinqueisoxazole (6CI) (CA INDEX NAME)



L5 ANSWER 48 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1961:93454 CAPLUS Full-text

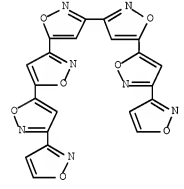
DN 55:93454

OREF 55:17622g-i

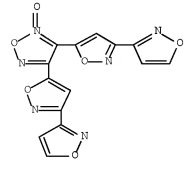
TI Polyisoxazoles

AU Ricca, Aldo; Gaudiano, Giorgio

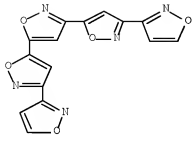
CS Politecnico Milan
SO Atti accad. nazl. Lincei Rend., Classe sci. fis., mat. e nat. (1960), 28, 211-18
DT Journal
LA Unavailable
AB cf. CA 54, 5618c. An extension of the reaction between hydroximic chlorides and acetylenic Grignard reagents gave 2 new polyisoxazoles, 3,3'-5',3''-5'',5'''-3''', 3IV pentaisoxazole (I) and 3,3'-5',5''-3'',3'''-5''',3IV-5IV,5V-3V,3VI-heptaisoxazole (II). Excess 5-ethynyl-3,3'-biisoxazole (III) with 5-formyl-3,3'-biisoxazole chlorooxime gave 31.5% I, m. 275°, λ 265 mμ. Excess III with 3,5-diformylisoxazole bis-(chlorooxime) gave 62% II, m. 245°, λ 268 mμ. Infrared spectra and prepns. of intermediates are given. I and II sublimed in vacuo without decomposition and were not fluorescent in Woods light.
IT 122273-42-1
(Derived from data in the 6th Collective Formula Index (1957-1961))
RN 122273-42-1 CAPLUS
CN 3,3':5',5'':3'',3''':5''',3'''':5'''',5''''':3''''',3'''''-Septiisoxazole (6CI) (CA INDEX NAME)



IT 108725-82-2P, Furazan, bis[3-(3-isoxazolyl)-5-isoxazolyl]-, 2-oxide 110357-84-1P, 3,3':5',3'':5'',5''':3''',3''''-Quinqueisoxazole
RL: PREP (Preparation)
(preparation of)
RN 108725-82-2 CAPLUS
CN 1,2,5-Oxadiazole, 3,4-bis([3,3'-biisoxazol]-5-yl)-, 5-oxide (CA INDEX NAME)



RN 110357-84-1 CAPLUS
CN 3,3':5',3'':5'',5''':3''',3''''-Quinqueisoxazole (6CI) (CA INDEX NAME)

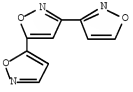


L5 ANSWER 49 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1960:28682 CAPLUS Full-text
DN 54:28682
OREF 54:5618c-i,5619a
TI Polyisoxazoles
AU Gaudiano, G.; Quilico, A.; Ricca, A.
CS Polytech., Milan
SO Tetrahedron (1959), 7, 24-30
CODEN: TETRAB; ISSN: 0040-4020
DT Journal
LA Unavailable
AB cf. C.A. 52, 18375d. The reaction of hydroximic chlorides on acetylenic Grignard reagents was applied to the synthesis of unknown polyisoxazoles. Precipitated MnO2 (55 g.) added to 7.7 g. 5'-hydroxymethyl-3,3'-biisoxazole in 500 ml. Me2CO and the mixture kept 20 hrs. at room temperature, the filtered solution and Me2CO washings evaporated in vacuo and the residue refluxed 15 min. with 6.0 g. HONH2.HCl and 4.6 g. Na2CO3 in 100 ml. H2O, the cooled mixture made slightly alkaline with N NaOH and the filtered solution acidified with 10% HCl yielded 1.7 g. 5'-formyl-3,3'-biisoxazole oxime (I), m. 187-9° (H2O). I (1.0 g.) in 20 ml. dry CCl4 saturated 10 min. at 0° with Cl, kept overnight at 0-5° and filtered, the residue washed with dry CCl4 and sublimed at 150-70°/0.5 mm. yielded 84% 3,3' biisoxazole-5'-formohydroximic chloride (II), m. 219-21°. II (2 g.) in 20 ml. tetrahydrofuran added portionwise with stirring and cooling in 15 min. to HC.tplbond.CMgBr (containing 0.53 g. Mg) in tetrahydrofuran and the mixture stirred 3 hrs. with cooling, kept overnight at room temperature and decomposed with ice and HCl, extracted with Et2O and the dried extract (Na2SO4) evaporated yielded 79% residue, crystallized (H2O) and sublimed to give pure 3,3';5',3''-triisoxazole (III), m. 153-5°, λ 239 mμ (log ε4.175, alc.). Tetrahydrofuran (100 ml.) containing 10 g. 3-isoxazolylformohydroximic chloride added in 10 min. with stirring at 0° to (C.tplbond.CMgBr)2 prepared from 4.0 g. Mg and the mixture stirred 6 hrs., kept overnight at room temperature and decomposed with ice and HCl, filtered from 19% yield of 3,3';5',5'';3'',5'''-tetraisoxazole (IV) and the filtrate repeatedly extracted with Et2O yielded 6.3 g. pure 5'-ethynyl-3,3'-biisoxazole (V), m. 82-3° (C6H14). V (5 g.) in 50 ml. dry Et2O added in 30 min. with stirring to EtMgBr (from 0.84 g. Mg) and the cooled solution stirred 30 min., treated dropwise with 5.1 g. freshly distilled HC(OEt)3 in 100 ml. cold C6H6 and the Et2O evaporated, the residue refluxed 4 hrs. and the mixture decomposed with 10 g. NH4OAc in ice H2O, extracted with Et2O and the dried extract evaporated in vacuo gave crude 3,3'-biisoxazole-5'-propargylic

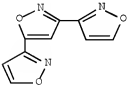
aldehyde diethyl acetal (VI). VI refluxed 2.5 hrs. with 2.5 g. HONH2.HCl in 40 mL. EtOH-H2O (3:1) and the alc. evaporated in vacuo, the residue diluted with H2O and filtered gave 0.4 g. 3,3';5',5''-triisoxazole (VII), m. 160-1° (H2O), λ 3 mμ (log ε 4.28, alc.). (C.tplbond.CH)2 (1.7 g.) in 15 ml. tetrahydrofuran added with cooling and stirring in 5 min. to EtMgBr (1.5 g. Mg) in 80 ml. tetrahydrofuran and the mixture stirred 2.5 hrs. at 20°, treated dropwise in 20 min. with 5 g. (ClC:NOH)2 in 50 ml. tetrahydrofuran and the mixture kept overnight, decomposed with ice H2O and HCl and the precipitate crystallized gave III, m. 265° (C6H6), λ 267 mμ (log ε 4.335). The acid filtrate extracted with Et2O gave 0.8 g. V. V (5 g.) in 25 ml. tetrahydrofuran added in 10 min. with stirring and cooling to EtMgBr (0.84 g. Mg) in 30 ml. tetrahydrofuran and the mixture heated 20 min. at 40° the solution cooled with ice and stirred with 1.37 g. (ClC:NOH)2 in 10 ml. tetrahydrofuran added in 10 min., the mixture stirred 1.5 hrs. at 20° and kept overnight, decomposed with ice and HCl and faltered yielded 40% 3,3';5',5''3'' 3''';5IV,5IV;3IV,3V-hexaisoxazole, m. 370° (decomposition), insol. in alc., subliming at 250-80°/0.5 mm. The infrared spectra show characteristically intense bands at 3.2, 6.5, 9.0 μ. VII and IV, containing a 5,5 linkage conjointly with 3,3 linkages show an ultraviolet spectrum similar to that of 5,5'-biisoxazole, λ 265 mμ, whereas III with 3,5 linkage conjointly with 3,3 linkage has a spectrum very similar to that of 3,3'-biisoxazole, λ 240 mμ.

IT 112534-16-4P, 3,3':5',5''-Terisoxazole 112534-28-8P, 3,3':5',3''-Terisoxazole 112844-00-5P, 3,3':5',5'':3'',3'''-Quaterisoxazole 113895-66-2P, 3,3':5',5'':3'',3''':5''',5'''':3'''',3'''''-Sexiisoxazole
RL: PREP (Preparation)
(preparation of)

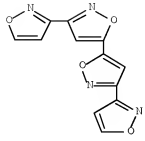
RN 112534-16-4 CAPLUS
CN 3,3':5',5''-Terisoxazole (6CI) (CA INDEX NAME)



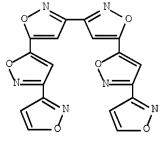
RN 112534-28-8 CAPLUS
CN 3,3':5',3''-Terisoxazole (6CI) (CA INDEX NAME)



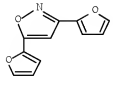
RN 112844-00-5 CAPLUS
CN 3,3':5',5'':3'',3'''-Quaterisoxazole (6CI) (CA INDEX NAME)



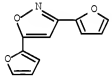
RN 113895-66-2 CAPLUS
CN 3,3':5',5'':3'',3''':5''',5'''':3'''',3''''':Sexiisoxazole (6CI) (CA INDEX NAME)



L5 ANSWER 50 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1953:51506 CAPLUS Full-text
DN 47:51506
OREF 47:8725c-d
TI Synthesis of 2-furancarboxylic acid
AU Taniyama, Masakazu
CS Toho Rayon Co. Ltd., Tokyo
SO Kogyo Kagaku Zasshi (1951), 54, 248-50
CODEN: KGKZA7; ISSN: 0368-5462
DT Journal
LA Unavailable
AB Addnl. remarks are given on the improvement of the Quaker Oats method (U.S. patent 2,041,184, (C.A. 30, 4515.7) for the preparation of 2-furancarboxylic acid by the direct oxidation of furfural.
IT 872788-74-4P, Isoxazole, 3,5-di-2-furyl-
RL: PREP (Preparation)
(preparation of)
RN 872788-74-4 CAPLUS
CN Isoxazole, 3,5-di-2-furanyl- (CA INDEX NAME)



L5 ANSWER 51 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1953:51505 CAPLUS Full-text
DN 47:51505
OREF 47:8724i,8725a-c
TI Di- and tri-2-furoylmethane
AU Hammond, George S.; Schultz, Frederick S.
CS Iowa State Coll., Ames
SO Journal of the American Chemical Society (1952), 74, 329-32
CODEN: JACSAT; ISSN: 0002-7863
DT Journal
LA Unavailable
AB Di- (I) and tri-2-furoylmethane (II) were identified as by-products in the synthesis of 2-acetylfuran (III) from furoyl chloride and Me2Cd. The near-ultraviolet absorption spectra of the ketones indicate that both are highly enolized in EtOH. The spectra of the enolate anions are strikingly similar to those of the enols. This phenomenon appears to be general and indicates that the bond orbitals of the terminal O atoms of a β-ketone system are essentially unhybridized in the enoles as well as in the enolate ions. III (10 g.) in 50 cc. Et2O added dropwise to 13 g. Et furoate and 6 g. NaOEt at reflux temperature, the mixture refluxed 2 hrs., extracted with 100 cc. KOH, diluted with 400 cc. Et2O, extracted with 50 cc. KOH, and the alkaline exts. acidified yielded 9 g. I, m. 70.5-2° PhMe (50 cc.) containing 3.68 g. I and 0.326 g. Na refluxed until the Na dissolved, 3 g. furoyl chloride added, the mixture diluted with Et2O, extracted with 10% NaOH, the extract acidified, the precipitate extracted (Soxhlet) with Skellysolve A, the residue extracted with EtOH, and the extract diluted with water yielded 2.67 g. II, m. 193°. I and II yielded di-2-furoylmethane dioxime, m. 174-8°. Either I or II with HONH2.HCl by the method of Wislicenus [Ann. 308, 219(1898)] yielded 3,5-di-2-furylisoxazole, m. 112 (from H2O-EtOH).
IT 872788-74-4P, Isoxazole, 3,5-di-2-furyl-
RL: PREP (Preparation)
(preparation of)
RN 872788-74-4 CAPLUS
CN Isoxazole, 3,5-di-2-furanyl- (CA INDEX NAME)



L5 ANSWER 52 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1942:18623 CAPLUS Full-text
DN 36:18623
OREF 36:2860g-i,2861a-i,2862a-f
TI Triisoxazoles
AU Musante, Carlo
SO Gazzetta Chimica Italiana (1941), 71, 172-82
CODEN: GCITA9; ISSN: 0016-5603
DT Journal
LA Unavailable
GI For diagram(s), see printed CA Issue.

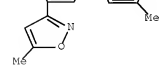
AB The earlier expts. (Quilico and M., C. A. 35, 3638.5; M., C. A. 35, 7962.5) were continued by a study of compds. containing more than 2 isoxazole nuclei united directly. Of 27 triisoxazoles theoretically possible, 4 isomeric dimethyltriisoxazoles (the 1st triisoxazoles to be described) were chosen. Their 4 parent triisoxazoles are the only ones containing a normal chain of C atoms, i.e., in which the union between any 2 nuclei is through the α,γ(3,5)-positions. The di-Me derivs. were prepared because of the difficulty of preparing the unsubstituted triisoxazoles. After studying various general procedures by which these triisoxazoles can theoretically be synthesized, it was finally decided to prepare the isoxazole-β-diketone, RCOCH2COR', and, by the action of NH2OH (I) on the latter, to form the triisoxazole. A mixture of MeMgI (from 42.6 g. MeI and 7.3 g. Mg in anhydrous Et2O (II)) and O.N:CMe.CH:CCOCl (III) (14.6 g.) in II, heated several min. at 100° the amorphous product decomposed with ice-cold 5% aqueous H2SO4, extracted with Et2O, the extract washed with aqueous Na2S2O4, dried by CaCl2, evaporated, and the oil purified by saturating its aqueous solution with (NH4)2SO4, yields (3-methyl-5-isoxazolyl)dimethylcarbinol, O.N:CMe.CH:CC(OH)Me2 (IV), slightly thick oil, b8-9 108-9°, b22 115-16°, d427.6 1.0596, nD27.6 1.46791. Its solns. in concentrated H2SO4 turn brown-red when heated. It does not react with hot concentrated aqueous alkalies, nor with p-O2NC6H4NHNH2. It is volatile with steam. Better yields of IV can be obtained by warming a mixture of O.N:CMe.CH:CCO2Et (V) (47 g.) in II and MeMgI (from 90 g. MeI and 15 g. Mg in II) at 36-7° until the reaction is complete, allowing to stand several hrs. (frequent agitation) and proceeding as before; 31.6 g. (74%) of IV is obtained. The same procedure used in preparing IV can be used for preparing (3-methyl-5-isoxazolyl)diethylcarbinol, thick oil, b22 132°, d417 1.0493, n417 1.47536. When heated several min. with P2O5, it does not react. IV and P2O5 (0.5 part by weight), heated cautiously (heat is evolved), the product treated with water, the separated oil extracted with Et2O, the residue dried with CaCl2 and fractionally distilled in vacuo, yield 3-methyl-5-isopropenyl-isoxazole, O.N:CMe.CH:CC(:CH2) Me (VI), b22 100-5°, b760 181-3° (the distillate is yellowish); when heated to its decomposition point, NH3 is evolved. The dehydration of IV can be accomplished also by refluxing for several min. a mixture of 31.6 g. IV and 20 g. AcCl (HCl is evolved), allowing to stand 2 hrs., diluting with water, steam-distilling and extracting the distillate with Et2O. The yield of VI is 24.1 g. (88%). Aqueous KMnO4 (19.73 g. in 575 cc.), added dropwise to a suspension of 6.5 g. VI in 155 cc. 10% H2SO4 at 0-5°, most of the MnO2 eliminated by (CO2H)2, extracted with Et2O, and the residue distilled in vacuo, yields O.N:CMe.CH:CAc (VII) (Quilico, Panizzi and Epifani, C. A. 34, 1316.5). V (6.2 g.) and 2.5 g. VII, fused together, 0.46 g. Na added (heat is evolved, the mixture turns dark red, and must be cooled with ice-water), II added, allowed to stand several hrs., the Na salt washed with Et2O, dissolved in ice-water, acidified with dilute H2SO4, and the precipitate purified by EtOH, yield bis(3-methyl-5-isoxazoyl)methane, [O.N:CMe.CH:CCO]2CH2 (VIII), m. 180-1°, soluble in dilute aqueous NaOH (repptd. by acids); with alc. FeCl3 it gives a red color. In dilute EtOH, it gives with Cu(OAc)2 a green Cu salt, C22H18O8N2Cu, turns yellow at 115°, gray at 180°-210°, maroon-red at 240°, and brown at 263°. Alc. VIII (2.34 g.), 1.4 g. I.HCl and aqueous NaOH (0.8 g.), refluxed 2 hrs., most of the EtOH eliminated, diluted with water, allowed to stand, and the precipitate purified by dilute EtOH, yield the dioxime, [O.N:CMe.CH:C(C:NOH)]2-CH2, m. 212-14°, soluble in dilute aqueous alkalies (repptd. by acids). It gives no color with FeCl3. It is easily benzoylated in alkaline solution When treated with concentrated HCl at 100% evaporated almost to dryness, the residue extracted with water, and purified by EtOH, it yields γ,γ''-dimethyl-α,α',γ',α''-triisoxazole, (IX), m. 235°. It is not altered by boiling 20% aqueous NaOH or by boiling concentrated HCl. Alc. VIII and PhNHNH2 (equimol. wts.), refluxed, and the product purified by EtOH, yield 1-phenyl-3,5-bis(3-methyl-5-isoxazolyl)pyrazole, O.N:CMe.CH:CC:N.NPh.C(C:CH.CMe: N.O):CH, m. 154-5°,

insol. in aqueous alkalies. 5-Methylisoxazole-3-carboxylic acid (Mumm and Bergell, C. A. 7, 1010) (7.5 g.), 1 cc. concentrated H2SO4 and 20 cc. absolute EtOH, refluxed 3 hrs., and then the same procedure followed as in the preparation of V, yield 5-methyl-3-carbethoxyisoxazole, HC:CMe.O.N:CCO2Et (X), b33 130°, odor similar to that of V. X (1.53 g.), 1.25 g. 5-methyl-3-acetylisoxazole and 0.23 g. Na in II react vigorously, and form a yellow Na salt, which, treated as in the preparation of VIII, yields bis(5-methyl-3-isoxazoyl) methane, [HC:CMe.O.N:CCO]2CH2 (XI), m. 142°. With alc. FeCl3 it gives an intense red color. With Cu(OAc)2 it forms a light green Cu salt, C22H18O8N4Cu, decomps. 243°. Alc. XI (0.243 g.), 0.28 g. I.HCl and 0.212 g. Na2CO3, heated at 100°, most of the EtOH evaporated, concentrated HCl added, heated again at 100°, and the product purified by EtOH, yield α,α''-dimethyl-γ,α',γ'γ''-triisoxazole, HC:CMe.O.N:CC:CH.C(C:N.O.CMe:CH):N.O (XII), m. 201°, insol. in boiling aqueous alkalies. V (3.3 g.), 2.7 g. O.N:CAc.CH:CMe (XIII) (Ajello and Cusmano, C. A. 34, 99.1) and 0.5 g. Na do not react in II but, in the same proportions without a solvent, heat is evolved, condensation takes place, and the product, extracted with Et2O, and the evaporated extract purified by EtOH, yields (5-methyl-3-isoxazoyl)(3-methyl-5-isoxazoyl) methane, O.N:CMe.CH:CCOCH2COC:N.O.CMe:CH (XIV), m. 153-4°. With Cu(OAc)2 and purification by glacial AcOH, XIV forms a Cu salt, decomps. approx. 250°. XIV is formed also from VII and X in the same way. With I under the same conditions as those used with VIII and with XI, XIV gives, after repeated crystns. from EtOH, a mixture which m. 226-8° but which could not be separated into its components, which are probably O.N:CMe.CH:CC:CHC(C:N.O.CMe:CH):N.O (XV) and O.N:CMe.CH:CC:N.O.C(C:N.O.CMe:CH):CH (XVI). Detns. of the m. ps. of mixts. of IX and XII in various proportions indicate that they form solid solns., as do the 5,3- and 3,5-derivs. of isoxazole (Quilico, et al., C. A. 33, 1728.3). IX, XII, XV and XVI should form complex salts analogous to the coordination compds. of polypyridyls with various salts of metals of different valences. If, furthermore, they undergo the Claisen condensation, compds. with a very high number of nuclei should be obtainable, and these high-mol. compds. may be of interest in connection with the general subject of polymers.

IT 850856-29-0P, Isoxazole, 3,5-bis(5-methyl-3-isoxazolyl)-
850856-30-3P, 5,5'-Biisoxazole,
3-methyl-3'-(3-methyl-5-isoxazolyl)-
RL: PREP (Preparation)
(preparation of)

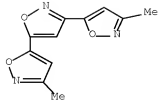
RN 850856-29-0 CAPLUS

CN 3,3':5',3''-Terisoxazole, 5,5''-dimethyl- (9CI) (CA INDEX NAME)



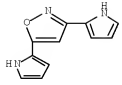
RN 850856-30-3 CAPLUS

CN 5,3':5',5''-Terisoxazole, 3,3''-dimethyl- (9CI) (CA INDEX NAME)



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L5 ANSWER 53 OF 53 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1912:19856 CAPLUS Full-text
DN 6:19856
OREF 6:2749c-g
TI Syntheses in the Pyrrole Group. V. Pyrrolic α-, β- and γ-Diketones
AU Oddo, Bernardo; Dainotti, Cesarina
CS Univ. Pavia
SO Gazzetta Chimica Italiana (1912), 42(I), 716-26
CODEN: GCITA9; ISSN: 0016-5603
DT Journal
LA Unavailable
GI For diagram(s), see printed CA Issue.
AB cf. C. A., 5, 2638. α,α-Dipyrryl-β,β-propanedione (I), from CH2(COCl)3 and 2 mols. C4H4NMgI in Et2O, lemon-yellow, soluble without change in alks., gives an intense green color with FeCl3 in alc., imparting a red color to CHCl3; gives with Cu(OAc)2 a salt, [(C4H4NCO)2CH]2Cu. insol. in H2O; with AgNO3 and a drop of NH3 a lemon-yellow precipitate changing to brick-red, having the comp. (AgNC4H3CO)2CH3, soluble in excess of NH3. With 1.5 mols. PhNHNH2.AcOH in alc. the diketone gives I-phenyl-3,5-dipyrrylpyrazole (II), pale yellow, m. about 166° (decompose); Na and alc. reduce the 2 pyrryl nuclei to pyrroline or pyrrolidine residues and as the reduction continues the pyrazole group is also attacked and a H2SO4 solution of the product exposed to the air soon gives the garnet-red color characteristic of pyrazoline. B. 20 hrs. in alc. with 1.5 mols. NH2OH.HCl and Na2CO3, the diketone yields dipyrrylisoxazole (III), m. about 167°, feebly basic. B. 2 hrs. with 40% KOH, the diketone is converted into C4H4NAc and α-C4H4NCO2H. α,α-Dipyrryl-γ,γ-butanedione, from (CH2COCl)2 and C4H4NMgI, silvery needles, m. 234-5° (decompose), insol. in cold., soluble without change in hot alks. Dioxime, obtained by b. the diketone in concentrate alc. solution 20 hrs. with excess of NH2OH, HCl and Na2CO3, microcryst. powder, decompose about 175°. With 1.5 mols. NH2OH is obtained the monooxime, pale yellow, m. 147°, unchanged by heating in alc. in sealed tubes up to 120°. The diketone is stable towards fused KOH or in sealed tubes at 140-50°.
IT 861592-07-6P, Isoxazole, 3,5-di-2-pyrryl-
RL: PREP (Preparation)
(preparation of)
RN 861592-07-6 CAPLUS
CN Isoxazole, 3,5-di-1H-pyrrol-2-yl- (CA INDEX NAME)



OSC.G 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (12 CITINGS)

=> s l4 not l5
L6 44 L4 NOT L5

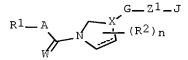
=> dis l6 1-44 bib abs fhitstr

L6 ANSWER 1 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2009:1035199 CAPLUS Full-text
DN 151:234956
TI Isoxazolyl-thiazole derivatives as fungicidal compounds and their preparation and use in controlling plant disease
IN Hanagan, Mary Ann; Pasteris, Robert James
PA E. I. du Pont de Nemours and Company, USA
SO PCT Int. Appl., 210pp.
CODEN: PIXXD2
DT Patent
LA English

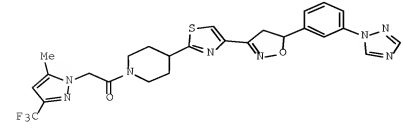
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2009094407 A2		20090730	WO 2009-XA31618	20090122

W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IS, IT, LU, MC, ML, MR, MT, NE, NL, NO, PT, SE, SN, TD, TG, TR

PRAI US 2008-62367P 20080125
GI



I



II

AB Disclosed are compds. of formulas I, including all geometric and stereoisomers, N-oxides, and salts thereof. Also disclosed are compns. containing the compds. of formula I and methods for controlling plant disease caused by a fungal pathogen comprising applying an effective amount of a compound or a composition of the invention. Compds. of formula I wherein R1 is (un)substituted Ph, (un)substituted 5- to 6-membered heteroaryl and (un)substituted naphthalenyl; A is (un)substituted methylene and NH and derivs.; W is O and S; X is ethylene, methyleneamino, ethenylene, propenylene, etc.; each R2 is independently C1-4 alkyl, C1-4 alkenyl, C1-4 haloalkyl, halo, etc.; G is (un)substituted 5-membered heterocyclic ring; J is (un)substituted 5- to 7-membered ring; (un)substituted 8- to 11-membered bicyclic ring system, and (un)substituted 7- to 11-membered spirocyclic ring; n is 0, 1 and 2; and their N-oxides and salts, are claimed. Example compound II was prepared by a multistep procedure (procedure given). All the invention compds. were evaluated for their fungicidal activity. Compound II showed 91 - 100 % control of the fungal plant disease. [This abstract record is one of 2 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

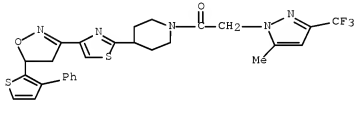
IT 1175091-54-9P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRPH (Prophetic); SPN (Synthetic preparation); BIOL (Biological study); USES (Uses); PREP (Preparation)

(preparation of isoxazolylthiazole derivs. as fungicides)

RN 1175091-54-9 CAPLUS

CN Ethanone, 1-[4-[4-[4,5-dihydro-5-(3-phenyl-2-thienyl)-3-isoxazolyl]-2-thiazolyl]-1-piperidinyl]-2-[5-methyl-3-(trifluoromethyl)-1H-pyrazol-1-yl]- (CA INDEX NAME)



L6 ANSWER 2 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2009:913028 CAPLUS Full-text

DN 151:173451

TI Isoxazolyl-thiazole derivatives as fungicidal compounds and their preparation and use in controlling plant diseases

IN Kamireddy, Balreddy; Pasteris, Robert James; Hanagan, Mary Ann

PA E. I. du Pont de Nemours and Company, USA

SO PCT Int. Appl., 260pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2009094445	A2	20090730	WO 2009-US31686	20090122
	W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE,				

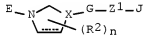
KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

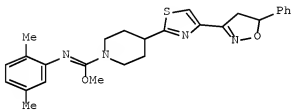
PRAI US 2008-62395P P 20080125

OS MARPAT 151:173451

GI



I



II

AB Disclosed are compds. of Formula (1), including all geometric and stereoisomers, N-oxides, and salts thereof. Also disclosed are compns. containing the compds. of formula I and methods for controlling plant disease caused by a fungal pathogen comprising applying an effective amount of a compound or a composition of the invention. Compds. of formula I wherein E is acyl, iminomethyl, sulfonyl, aminocarbonyl, etc.; X is ethylene, methylamino, ethenylene, propenylene, propylene, etc.; Z1 is a bond, O, CO, S, SO, SO2, etc.; J is (un)substituted 5- to 7-membered ring, (un)substituted 8- to 11-membered bicyclic ring. and (un)substituted 7- to 11-membered spirocyclic ring; G is (un)substituted 5-membered heterocyclic ring; each R2 is halo, CN, OH, C1-4 alkyl, C1-4 alkenyl, etc.; n is 0, 1 and 2; dotted line is single or double bond; and their N-oxides and salts, are claimed. Example compound II was prepared by substitution of Me 4-[4-(4,5-dihydro-5-phenyl-3-isoxazolyl)-2-thiazolyl]-N-(2,5- dimethylphenyl)-1-piperidinecarboximidothioate with methanol. All the invention compds. were evaluated for their fungicidal activity. Compound II showed 99 - 100 % control of the fungal plant diseases.

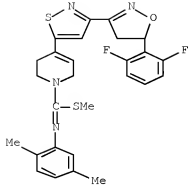
IT 1174209-22-6P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRPH (Prophetic); SPN (Synthetic preparation); BIOL (Biological study); USES (Uses); PREP (Preparation)

(preparation of isoxazolylthiazole derivs. as fungicides)

RN 1174200-22-6 CAPLUS

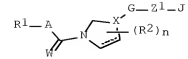
CN 1(2H)-Pyridinecarboximidothioic acid, 4-[3-[5-(2,6-difluorophenyl)-4,5-dihydro-3-isoxazolyl]-5-isothiazolyl]-N-(2,5-dimethylphenyl)-3,6-dihydro-, methyl ester (CA INDEX NAME)



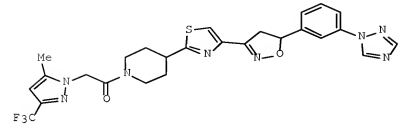
L6 ANSWER 3 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2009:911588 CAPLUS Full-text
DN 151:173450
TI Isoxazolyl-thiazole derivatives as fungicidal compounds and their preparation and use in controlling plant disease
IN Hanagan, Mary Ann; Pasteris, Robert James
PA E. I. du Pont de Nemours and Company, USA
SO PCT Int. Appl., 210pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2009094407	A2	20090730	WO 2009-US31618	20090122
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRAI US 2008-62367P	P	20080125		

OS MARPAT 151:173450
GI



I



II

AB Disclosed are compds. of formulas I, including all geometric and stereoisomers, N-oxides, and salts thereof. Also disclosed are compns. containing the compds. of formula I and methods for controlling plant disease caused by a fungal pathogen comprising applying an effective amount of a compound or a composition of the invention. Compds. of formula I wherein R1 is (un)substituted Ph, (un)substituted 5- to 6-membered heteroaryl and (un)substituted naphthalenyl; A is (un)substituted methylene and NH and derivs.; W is O and S; X is ethylene, methyleneamino, ethenylene, propenylene, etc.; each R2 is independently C1-4 alkyl, C1-4 alkenyl, C1-4 haloalkyl, halo, etc.; G is (un)substituted 5-membered heterocyclic ring; J is (un)substituted 5- to 7-membered ring; (un)substituted 8- to 11-membered bicyclic ring system, and (un)substituted 7- to 11-membered spirocyclic ring; n is 0, 1 and 2; and their N-oxides and salts, are claimed. Example compound II was prepared by a multistep procedure (procedure given). All the invention compds. were evaluated for their fungicidal activity. Compound II showed 91 - 100 % control of the fungal plant disease. [This abstract record is one of 2 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

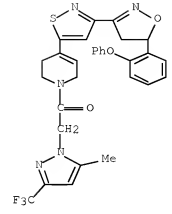
IT 1174990-56-7P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRPH (Prophetic); SPN (Synthetic preparation); BIOL (Biological study); USES (Uses); PREP (Preparation)

(preparation of isoxazolylthiazole derivs. as fungicides)

RN 1174990-56-7 CAPLUS

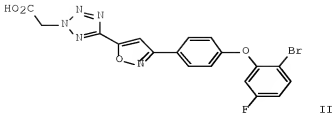
CN Ethanone, 1-[4-[3-[4,5-dihydro-5-(2-phenoxyphenyl)-3-isoxazolyl]-5-isothiazolyl]-3,6-dihydro-1(2H)-pyridinyl]-2-[5-methyl-3-(trifluoromethyl)-1H-pyrazol-1-yl]- (CA INDEX NAME)



L6 ANSWER 4 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2009:737404 CAPLUS Full-text
DN 151:56853
TI Preparation of novel heteroaromatic compounds as inhibitors of stearoyl-coenzyme A delta-9 desaturase (SCD)
IN Li, Chun Sing; Ramtohul, Yeeman K.; Leclerc, Jean-Philippe
PA Merck Frosst Canada Ltd., Can.
SO PCT Int. Appl., 70pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2009073973	A1	20090618	WO 2008-CA2156	20081209
	W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
PRAI	US 2007-7233P	P	20071211		

OS MARPAT 151:56853
GI



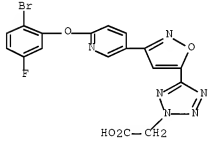
II

AB The title compds. I [HetAr-W-X-Sr; X = O, S, S(O), SO2, (un)substituted NH or CH2; W = (un)substituted phenylene, pyridinylene, pyrimidylene, etc.; HetAr = heteroaryl-substituted thiodiazolyl, oxadiazolyl, thiazolyl, etc.; Ar = (un)substitited Ph or naphthyl] that are inhibitors of stearoyl-CoA delta-9 desaturase (SCD), and therefore useful for the prevention and treatment of conditions related to abnormal lipid synthesis and metabolism, including cardiovascular disease, atherosclerosis, obesity, diabetes, neurol. disease, metabolic syndrome, insulin resistance, cancer, liver steatosis and non-alc. steatohepatitis, were prepared E.g., a multi-step synthesis of II, starting from 4-fluorobenzaldehyde and 2-bromo-5-fluorophenol, was given. Compds. I, particularly exemplified compds. I, exhibit an inhibition constant IC50 of less than 1 μM and more typically less than 0.1 μM. Pharmaceutical composition comprising the compound I is disclosed.

IT 1161025-79-1P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of novel heteroarom. compds. as inhibitors of stearoyl-CoA delta-9 desaturase (SCD))

RN 1161025-79-1 CAPLUS

CN 2H-Tetrazole-2-acetic acid, 5-[3-[6-(2-bromo-5-fluorophenoxy)-3-pyridinyl]-5-isoxazolyl]- (CA INDEX NAME)



RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2009:709285 CAPLUS Full-text

DN 150:554527

TI Heterocyclic compounds as fungicides and their preparation and fungicidal mixtures

IN Gregory, Vann; Pasteris, Robert James

PA E. I. Du Pont De Nemours and Company, USA

SO PCT Int. Appl., 498pp.

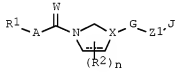
CODEN: PIXXD2
DT Patent
LA English

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2009055514 A2		20090430	WO 2008-XO80850	20081023

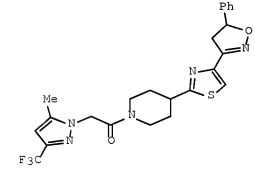
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IS, IT, LU, MC, ML, MR, MT, NE, NL, NO, PT, SE, SN, TD, TG, TR

PRAI US 2007-2P 20071023
US 2008-62400P 20080125

GI



I



II

AB Disclosed is a fungicidal composition comprising of at least one compound selected from the compds. of formula I N-oxides, and salts thereof, and at least one addnl. fungicidal compound Also disclosed is a method for controlling plant diseases caused by fungal plant pathogens comprising applying to the plant or portion thereof, or to the plant seed, a fungicidally effective amount of the aforesaid composition Also disclosed is a composition comprising component of aforesaid composition and at least one insecticide. Compds. of formula I wherein dashed bond is single or double bond; R1 is (un)substituted Ph, naphthyl and 5- t0 6-membered heteroaryl; A is CHR15 and NH and derivs.; R15 is H, halo, CN, OH, CHO. C1-4 alkyl, SH, amino, C1-6 hydroxyalkyl, etc.; W is O and S; X is aminoalkyl, alkyl, alkenyl, etc.; each R2 is halo, CN, OH, C1-4 alkyl, etc.; G is (un)substituted 5-membered heteroaryl and 5-membered (un)saturated heterocycle; J is (un)substituted 5- to 7- membered ring, (un)substituted 8- to 11-membered bicyclic ring and (un)substituted 7- to 11-membered spirocycle; n is 0, 1, and 2; Z1 is a bond, CO, S, SO, SO2, NH and derivs., CH2, etc.; and N-oxides and salts thereof are claimed. Example compound II was prepared by cyclization of 1,1-dimethylethyl 4-(4-formyl-2-thiazolyl)-1-piperidinecarboxylate with styrene; the resulting

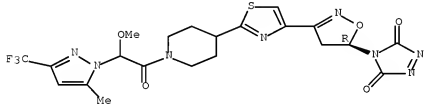
1,1-dimethylethyl 4-[4-(4,5-dihydro-5-phenylisoxazol-3-yl)-2- thiazolyl]-1-piperidinecarboxylate underwent deprotection to give 4-[4-(4,5-dihydro-5-phenylisoxazol-3-yl)-2-thiazolyl]-1-piperidine, which underwent acetylation with 5-methyl-3-(trifluoromethyl)-1H-pyrazole-1- acetic acid to give compound II. All the example compds. in combination with other fungicides were evaluated for their fungicidal activity (some data given). [This abstract record is one of 16 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

IT 1151986-52-5P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRPH (Prophetic); SPN (Synthetic preparation); BIOL (Biological study); USES (Uses); PREP (Preparation)
(preparation of heterocyclic compds. as fungicides and their fungicidal mixts. for controlling plant fungal diseases)

RN 1151986-52-5 CAPLUS

CN 3H-1,2,4-Triazole-3,5(4H)-dione, 4-[(5R)-4,5-dihydro-3-[2-[1-[2-methoxy-2-[5-methyl-3-(trifluoromethyl)-1H-pyrazol-1-yl]acetyl]-4-piperidinyl]-4-thiazolyl]-5-isoxazolyl]- (CA INDEX NAME)

Absolute stereochemistry.



L6 ANSWER 6 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2009:709284 CAPLUS Full-text

DN 150:554526

TI Heterocyclic compounds as fungicides and their preparation and fungicidal mixtures

IN Gregory, Vann; Pasteris, Robert James

PA E. I. Du Pont De Nemours and Company, USA

SO PCT Int. Appl., 498pp.
CODEN: PIXXD2

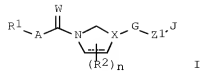
DT Patent

LA English

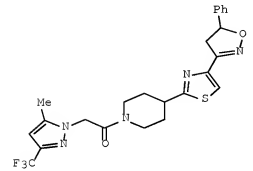
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2009055514 A2		20090430	WO 2008-XN80850	20081023
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR				
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IS, IT, LU, MC, ML, MR, MT, NE, NL, NO, PT, SE, SN, TD, TG, TR				

PRAI US 2007-2P 20071023
US 2008-62400P 20080125

GI



I



II

AB Disclosed is a fungicidal composition comprising of at least one compound selected from the compds. of formula I N-oxides, and salts thereof, and at least one addnl. fungicidal compound Also disclosed is a method for controlling plant diseases caused by fungal plant pathogens comprising applying to the plant or portion thereof, or to the plant seed, a fungicidally effective amount of the aforesaid composition Also disclosed is a composition comprising component of aforesaid composition and at least one insecticide. Compds. of formula I wherein dashed bond is single or double bond; R1 is (un)substituted Ph, naphthyl and 5- t0 6-membered heteroaryl; A is CHR15 and NH and derivs.; R15 is H, halo, CN, OH, CHO. C1-4 alkyl, SH, amino, C1-6 hydroxyalkyl, etc.; W is O and S; X is aminoalkyl, alkyl, alkenyl, etc.; each R2 is halo, CN, OH, C1-4 alkyl, etc.; G is (un)substituted 5-membered heteroaryl and 5-membered (un)saturated heterocycle; J is (un)substituted 5- to 7- membered ring, (un)substituted 8- to 11-membered bicyclic ring and (un)substituted 7- to 11-membered spirocycle; n is 0, 1, and 2; Z1 is a bond, CO, S, SO, SO2, NH and derivs., CH2, etc.; and N-oxides and salts thereof are claimed. Example compound II was prepared by cyclization of 1,1-dimethylethyl 4-(4-formyl-2-thiazolyl)-1-piperidinecarboxylate with styrene; the resulting 1,1-dimethylethyl 4-[4-(4,5-dihydro-5-phenylisoxazol-3-yl)-2- thiazolyl]-1-piperidinecarboxylate underwent deprotection to give 4-[4-(4,5-dihydro-5-phenylisoxazol-3-yl)-2-thiazolyl]-1-piperidine, which underwent acetylation with 5-methyl-3-(trifluoromethyl)-1H-pyrazole-1- acetic acid to give compound II. All the example compds. in combination with other fungicides were evaluated for their fungicidal activity (some data given). [This abstract record is one of 16 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

IT 1151984-40-5P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRPH (Prophetic); SPN (Synthetic preparation); BIOL (Biological study); USES (Uses); PREP (Preparation)

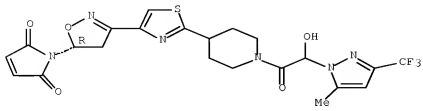
(preparation of heterocyclic compds. as fungicides and their fungicidal mixts. for controlling plant fungal diseases)

RN 1151984-40-5 CAPLUS

CN 1H-Pyrrole-2,5-dione, 1-[(5R)-4,5-dihydro-3-[2-[1-[2-hydroxy-2-[5-methyl-3-(trifluoromethyl)-1H-pyrazol-1-yl]acetyl]-4-piperidinyl]-4-thiazolyl]-5-

isoxazolyl]- (CA INDEX NAME)

Absolute stereochemistry.



L6 ANSWER 7 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2009:709283 CAPLUS Full-text
DN 150:554525
TI Heterocyclic compounds as fungicides and their preparation and fungicidal mixtures
IN Gregory, Vann; Pasteris, Robert James
PA E. I. Du Pont De Nemours and Company, USA
SO PCT Int. Appl., 498pp.
CODEN: PIXXD2
DT Patent
LA English

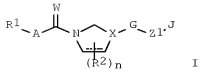
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2009055514 A2		20090430	WO 2008-XM80850	20081023

W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR

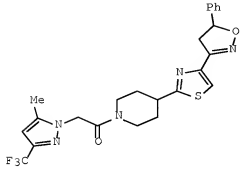
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IS, IT, LU, MC, ML, MR, MT, NE, NL, NO, PT, SE, SN, TD, TG, TR

PRAI US 2007-2P 20071023
US 2008-62400P 20080125

GI



I



II

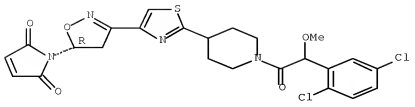
AB Disclosed is a fungicidal composition comprising of at least one compound selected from the compds. of formula I N-oxides, and salts thereof, and at least one addnl. fungicidal compound Also disclosed is a method for controlling plant diseases caused by fungal plant pathogens comprising applying to the plant or portion thereof, or to the plant seed, a fungicidally effective amount of the aforesaid composition Also disclosed is a composition comprising component of aforesaid composition and at least one insecticide. Compds. of formula I wherein dashed bond is single or double bond; R1 is (un)substituted Ph, naphthyl and 5- tO 6-membered heteroaryl; A is CHR15 and NH and derivs.; R15 is H, halo, CN, OH, CHO. C1-4 alkyl, SH, amino, C1-6 hydroxyalkyl, etc.; W is O and S; X is aminoalkyl, alkyl, alkenyl, etc.; each R2 is halo, CN, OH, C1-4 alkyl, etc.; G is (un)substituted 5-membered heteroaryl and 5-membered (un)saturated heterocycle; J is (un)substituted 5- to 7- membered ring, (un)substituted 8- to 11-membered bicyclic ring and (un)substituted 7- to 11-membered spirocycle; n is 0, 1, and 2; Z1 is a bond, CO, S, SO, SO2, NH and derivs., CH2, etc.; and N-oxides and salts thereof are claimed. Example compound II was prepared by cyclization of 1,1-dimethylethyl 4-(4-formyl-2-thiazolyl)-1-piperidinecarboxylate with styrene; the resulting 1,1-dimethylethyl 4-[4-(4,5-dihydro-5-phenylisoxazol-3-yl)-2- thiazolyl]-1-piperidinecarboxylate underwent deprotection to give 4-[4-(4,5-dihydro-5-phenylisoxazol-3-yl)-2-thiazolyl]-1-piperidine, which underwent acetylation with 5-methyl-3-(trifluoromethyl)-1H-pyrazole-1- acetic acid to give compound II. All the example compds. in combination with other fungicides were evaluated for their fungicidal activity (some data given). [This abstract record is one of 16 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

IT 1151984-50-7P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRPH (Prophetic); SPN (Synthetic preparation); BIOL (Biological study); USES (Uses); PREP (Preparation)
(preparation of heterocyclic compds. as fungicides and their fungicidal mixts. for controlling plant fungal diseases)

RN 1151984-50-7 CAPLUS

CN 1H-Pyrrole-2,5-dione, 1-[(5R)-3-[2-[1-[2-(2,5-dichlorophenyl)-2-methoxyacetyl]-4-piperidinyl]-4-thiazolyl]-4,5-dihydro-5-isoxazolyl]- (CA INDEX NAME)

Absolute stereochemistry.



L6 ANSWER 8 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2009:709282 CAPLUS Full-text
DN 150:554524
TI Heterocyclic compounds as fungicides and their preparation and fungicidal mixtures
IN Gregory, Vann; Pasteris, Robert James
PA E. I. Du Pont De Nemours and Company, USA
SO PCT Int. Appl., 498pp.
CODEN: PIXXD2
DT Patent
LA English

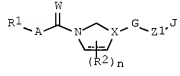
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2009055514 A2		20090430	WO 2008-XL80850	20081023

W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR

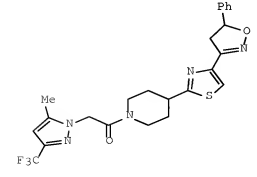
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IS, IT, LU, MC, ML, MR, MT, NE, NL, NO, PT, SE, SN, TD, TG, TR

PRAI US 2007-2P 20071023
US 2008-62400P 20080125

GI



I



II

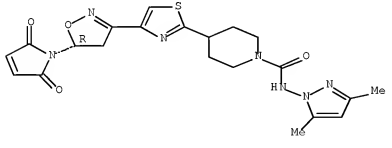
AB Disclosed is a fungicidal composition comprising of at least one compound selected from the compds. of formula I N-oxides, and salts thereof, and at least one addnl. fungicidal compound Also disclosed is a method for controlling plant diseases caused by fungal plant pathogens comprising applying to the plant or portion thereof, or to the plant seed, a fungicidally effective amount of the aforesaid composition Also disclosed is a composition comprising component of aforesaid composition and at least one insecticide. Compds. of formula I wherein dashed bond is single or double bond; R1 is (un)substituted Ph, naphthyl and 5- t0 6-membered heteroaryl; A is CHR15 and NH and derivs.; R15 is H, halo, CN, OH, CHO. C1-4 alkyl, SH, amino, C1-6 hydroxyalkyl, etc.; W is O and S; X is aminoalkyl, alkyl, alkenyl, etc.; each R2 is halo, CN, OH, C1-4 alkyl, etc.; G is (un)substituted 5-membered heteroaryl and 5-membered (un)saturated heterocycle; J is (un)substituted 5- to 7- membered ring, (un)substituted 8- to 11-membered bicyclic ring and (un)substituted 7- to 11-membered spirocycle; n is 0, 1, and 2; Z1 is a bond, CO, S, SO, SO2, NH and derivs., CH2, etc.; and N-oxides and salts thereof are claimed. Example compound II was prepared by cyclization of 1,1-dimethylethyl 4-(4-formyl-2-thiazolyl)-1-piperidinecarboxylate with styrene; the resulting 1,1-dimethylethyl 4-[4-(4,5-dihydro-5-phenylisoxazol-3-yl)-2- thiazolyl]-1-piperidinecarboxylate underwent deprotection to give 4-[4-(4,5-dihydro-5-phenylisoxazol-3-yl)-2-thiazolyl]-1-piperidine, which underwent acetylation with 5-methyl-3-(trifluoromethyl)-1H-pyrazole-1- acetic acid to give compound II. All the example compds. in combination with other fungicides were evaluated for their fungicidal activity (some data given). [This abstract record is one of 16 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

IT 1151984-10-9P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRPH (Prophetic); SPN (Synthetic preparation); BIOL (Biological study); USES (Uses); PREP (Preparation)
(preparation of heterocyclic compds. as fungicides and their fungicidal mixts. for controlling plant fungal diseases)

RN 1151984-10-9 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.



L6 ANSWER 9 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2009:701288 CAPLUS Full-text

DN 150:554523

TI Heterocyclic compounds as fungicides and their preparation and fungicidal mixtures

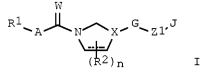
IN Gregory, Vann; Pasteris, Robert James
PA E. I. Du Pont De Nemours and Company, USA
SO PCT Int. Appl., 498pp.
CODEN: PIXXD2
DT Patent
LA English

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2009055514 A2		20090430	WO 2008-XK80850	20081023

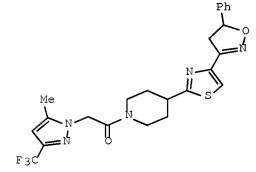
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IS, IT, LU, MC, ML, MR, MT, NE, NL, NO, PT, SE, SN, TD, TG, TR

PRAI US 2007-2P 20071023
US 2008-62400P 20080125

GI



I



II

AB Disclosed is a fungicidal composition comprising of at least one compound selected from the compds. of formula I N-oxides, and salts thereof, and at least one addnl. fungicidal compound Also disclosed is a method for controlling plant diseases caused by fungal plant pathogens comprising applying to the plant or portion thereof, or to the plant seed, a fungicidally effective amount of the aforesaid composition Also disclosed is a composition comprising component of aforesaid composition and at least one insecticide. Compds. of formula I wherein dashed bond is single or double bond; R1 is (un)substituted Ph, naphthyl and 5- t0 6-membered heteroaryl; A is CHR15 and NH and derivs.; R15 is H, halo, CN, OH, CHO. C1-4 alkyl, SH, amino, C1-6 hydroxyalkyl, etc.; W is O and S; X is aminoalkyl, alkyl, alkenyl, etc.; each R2 is halo, CN, OH, C1-4 alkyl, etc.; G is (un)substituted 5-membered heteroaryl and 5-membered (un)saturated heterocycle; J is (un)substituted 5- to 7- membered ring, (un)substituted 8- to 11-membered bicyclic ring and (un)substituted 7- to 11-membered spirocycle; n is 0, 1, and 2; Z1 is a bond,

CO, S, SO, SO2, NH and derivs., CH2, etc.; and N-oxides and salts thereof are claimed. Example compound II was prepared by cyclization of 1,1-dimethylethyl 4-(4-formyl-2-thiazolyl)-1-piperidinecarboxylate with styrene; the resulting 1,1-dimethylethyl 4-[4-(4,5-dihydro-5-phenylisoxazol-3-yl)-2- thiazolyl]-1-piperidinecarboxylate underwent deprotection to give 4-[4-(4,5-dihydro-5-phenylisoxazol-3-yl)-2-thiazolyl]-1-piperidine, which underwent acetylation with 5-methyl-3-(trifluoromethyl)-1H-pyrazole-1- acetic acid to give compound II. All the example compds. in combination with other fungicides were evaluated for their fungicidal activity (some data given). [This abstract record is one of 16 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

IT 1014615-97-4P

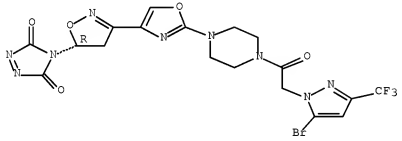
RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRPH (Prophetic); SPN (Synthetic preparation); BIOL (Biological study); USES (Uses); PREP (Preparation)

(preparation of heterocyclic compds. as fungicides and their fungicidal mixts. for controlling plant fungal diseases)

RN 1014615-97-4 CAPLUS

CN 3H-1,2,4-Triazole-3,5(4H)-dione, 4-[(5R)-3-[2-[4-[2-[5-bromo-3-(trifluoromethyl)-1H-pyrazol-1-yl]acetyl]-1-piperazinyl]-4-oxazolyl]-4,5-dihydro-5-isoxazolyl]- (CA INDEX NAME)

Absolute stereochemistry.



L6 ANSWER 10 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2009:701287 CAPLUS Full-text

DN 150:554522

TI Heterocyclic compounds as fungicides and their preparation and fungicidal mixtures

IN Gregory, Vann; Pasteris, Robert James

PA E. I. Du Pont De Nemours and Company, USA

SO PCT Int. Appl., 498pp.
CODEN: PIXXD2

DT Patent

LA English

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2009055514 A2		20090430	WO 2008-XJ80850	20081023

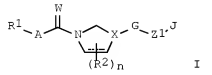
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR

RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB,

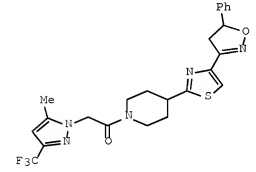
GR, IE, IS, IT, LU, MC, ML, MR, MT, NE, NL, NO, PT, SE, SN, TD, TG, TR

PRAI US 2007-2P 20071023
US 2008-62400P 20080125

GI



I



II

AB Disclosed is a fungicidal composition comprising of at least one compound selected from the compds. of formula I N-oxides, and salts thereof, and at least one addnl. fungicidal compound Also disclosed is a method for controlling plant diseases caused by fungal plant pathogens comprising applying to the plant or portion thereof, or to the plant seed, a fungicidally effective amount of the aforesaid composition Also disclosed is a composition comprising component of aforesaid composition and at least one insecticide. Compds. of formula I wherein dashed bond is single or double bond; R1 is (un)substituted Ph, naphthyl and 5- t0 6-membered heteroaryl; A is CHR15 and NH and derivs.; R15 is H, halo, CN, OH, CHO. C1-4 alkyl, SH, amino, C1-6 hydroxyalkyl, etc.; W is O and S; X is aminoalkyl, alkyl, alkenyl, etc.; each R2 is halo, CN, OH, C1-4 alkyl, etc.; G is (un)substituted 5-membered heteroaryl and 5-membered (un)saturated heterocycle; J is (un)substituted 5- to 7- membered ring, (un)substituted 8- to 11-membered bicyclic ring and (un)substituted 7- to 11-membered spirocycle; n is 0, 1, and 2; Z1 is a bond, CO, S, SO, SO2, NH and derivs., CH2, etc.; and N-oxides and salts thereof are claimed. Example compound II was prepared by cyclization of 1,1-dimethylethyl 4-(4-formyl-2-thiazolyl)-1-piperidinecarboxylate with styrene; the resulting 1,1-dimethylethyl 4-[4-(4,5-dihydro-5-phenylisoxazol-3-yl)-2- thiazolyl]-1-piperidinecarboxylate underwent deprotection to give 4-[4-(4,5-dihydro-5-phenylisoxazol-3-yl)-2-thiazolyl]-1-piperidine, which underwent acetylation with 5-methyl-3-(trifluoromethyl)-1H-pyrazole-1- acetic acid to give compound II. All the example compds. in combination with other fungicides were evaluated for their fungicidal activity (some data given). [This abstract record is one of 16 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

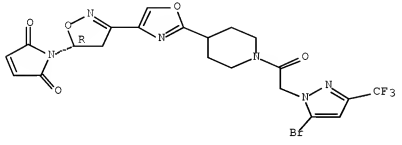
IT 1014615-37-2P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRPH (Prophetic); SPN (Synthetic preparation); BIOL (Biological study); USES (Uses); PREP (Preparation)

(preparation of heterocyclic compds. as fungicides and their fungicidal mixts. for controlling plant fungal diseases)

RN 1014615-37-2 CAPLUS

CN 1H-Pyrrole-2,5-dione, 1-[(5R)-3-[2-[1-[2-[5-bromo-3-(trifluoromethyl)-1H-pyrazol-1-yl]acetyl]-4-piperidinyl]-4-oxazolyl]-4,5-dihydro-5-isoxazolyl]- (CA INDEX NAME)

Absolute stereochemistry.



L6 ANSWER 11 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2009:701286 CAPLUS Full-text

DN 150:554521

TI Heterocyclic compounds as fungicides and their preparation and fungicidal mixtures

IN Gregory, Vann; Pasteris, Robert James

PA E. I. Du Pont De Nemours and Company, USA

SO PCT Int. Appl., 498pp.
CODEN: PIXXD2

DT Patent

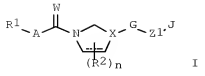
LA English

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2009055514 A2		20090430	WO 2008-US80850	20081023
	W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR				
	RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IS, IT, LU, MC, ML, MR, MT, NE, NL, NO, PT, SE, SN, TD, TG, TR				

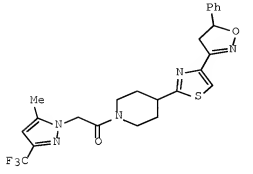
PRAI US 2007-2P 20071023

US 2008-62400P 20080125

GI



I



II

AB Disclosed is a fungicidal composition comprising of at least one compound selected from the compds. of formula I N-oxides, and salts thereof, and at least one addnl. fungicidal compound Also disclosed is a method for controlling plant diseases caused by fungal plant pathogens comprising applying to the plant or portion thereof, or to the plant seed, a fungicidally effective amount of the aforesaid composition Also disclosed is a composition comprising component of aforesaid composition and at least one insecticide. Compds. of formula I wherein dashed bond is single or double bond; R1 is (un)substituted Ph, naphthyl and 5- tO 6-membered heteroaryl; A is CHR15 and NH and derivs.; R15 is H, halo, CN, OH, CHO. C1-4 alkyl, SH, amino, C1-6 hydroxyalkyl, etc.; W is O and S; X is aminoalkyl, alkyl, alkenyl, etc.; each R2 is halo, CN, OH, C1-4 alkyl, etc.; G is (un)substituted 5-membered heteroaryl and 5-membered (un)saturated heterocycle; J is (un)substituted 5- to 7- membered ring, (un)substituted 8- to 11-membered bicyclic ring and (un)substituted 7- to 11-membered spirocycle; n is 0, 1, and 2; Z1 is a bond, CO, S, SO, SO2, NH and derivs., CH2, etc.; and N-oxides and salts thereof are claimed. Example compound II was prepared by cyclization of 1,1-dimethylethyl 4-(4-formyl-2-thiazolyl)-1-piperidinecarboxylate with styrene; the resulting 1,1-dimethylethyl 4-[4-(4,5-dihydro-5-phenylisoxazol-3-yl)-2- thiazolyl]-1-piperidinecarboxylate underwent deprotection to give 4-[4-(4,5-dihydro-5-phenylisoxazol-3-yl)-2-thiazolyl]-1-piperidine, which underwent acetylation with 5-methyl-3-(trifluoromethyl)-1H-pyrazole-1- acetic acid to give compound II. All the example compds. in combination with other fungicides were evaluated for their fungicidal activity (some data given). [This abstract record is one of 16 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

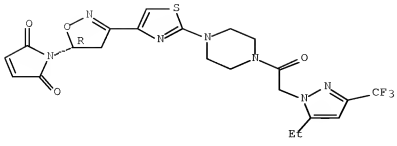
IT 1014617-12-9P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRPH (Prophetic); SPN (Synthetic preparation); BIOL (Biological study); USES (Uses); PREP (Preparation)
(preparation of heterocyclic compds. as fungicides and their fungicidal mixts. for controlling plant fungal diseases)

RN 1014617-12-9 CAPLUS

CN 1H-Pyrrole-2,5-dione, 1-[(5R)-3-[2-[4-[2-[5-ethyl-3-(trifluoromethyl)-1H-pyrazol-1-yl]acetyl]-1-piperazinyl]-4-thiazolyl]-4,5-dihydro-5-isoxazolyl]- (CA INDEX NAME)

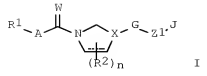
Absolute stereochemistry.



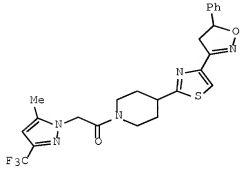
L6 ANSWER 12 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2009:701285 CAPLUS Full-text
DN 150:554520
TI Heterocyclic compounds as fungicides and their preparation and fungicidal mixtures
IN Gregory, Vann; Pasteris, Robert James
PA E. I. Du Pont De Nemours and Company, USA
SO PCT Int. Appl., 498pp.
CODEN: PIXXD2
DT Patent
LA English

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2009055514 A2		20090430	WO 2008-XH80850	20081023
	W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR				
	RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IS, IT, LU, MC, ML, MR, MT, NE, NL, NO, PT, SE, SN, TD, TG, TR				

PRAI US 2007-2P 20071023
US 2008-62400P 20080125
GI



I



II

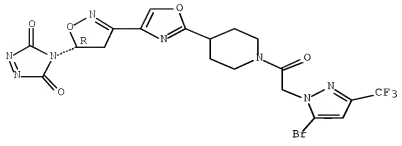
AB Disclosed is a fungicidal composition comprising of at least one compound selected from the compds. of formula I N-oxides, and salts thereof, and at least one addnl. fungicidal compound Also disclosed is a method for controlling plant diseases caused by fungal plant pathogens comprising applying to the plant or portion thereof, or to the plant seed, a fungicidally effective amount of the aforesaid composition Also disclosed is a composition comprising component of aforesaid composition and at least one insecticide. Compds. of formula I wherein dashed bond is single or double bond; R1 is (un)substituted Ph, naphthyl and 5- tO 6-membered heteroaryl; A is CHR15 and NH and derivs.; R15 is H, halo, CN, OH, CHO. C1-4 alkyl, SH, amino, C1-6 hydroxyalkyl, etc.; W is O and S; X is aminoalkyl, alkyl, alkenyl, etc.; each R2 is halo, CN, OH, C1-4 alkyl, etc.; G is (un)substituted 5-membered heteroaryl and 5-membered (un)saturated heterocycle; J is (un)substituted 5- to 7- membered ring, (un)substituted 8- to 11-membered bicyclic ring and (un)substituted 7- to 11-membered spirocycle; n is 0, 1, and 2; Z1 is a bond, CO, S, SO, SO2, NH and derivs., CH2, etc.; and N-oxides and salts thereof are claimed. Example compound II was prepared by cyclization of 1,1-dimethylethyl 4-(4-formyl-2-thiazolyl)-1-piperidinecarboxylate with styrene; the resulting 1,1-dimethylethyl 4-[4-(4,5-dihydro-5-phenylisoxazol-3-yl)-2- thiazolyl]-1-piperidinecarboxylate underwent deprotection to give 4-[4-(4,5-dihydro-5-phenylisoxazol-3-yl)-2-thiazolyl]-1-piperidine, which underwent acetylation with 5-methyl-3-(trifluoromethyl)-1H-pyrazole-1- acetic acid to give compound II. All the example compds. in combination with other fungicides were evaluated for their fungicidal activity (some data given). [This abstract record is one of 16 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

IT 1014615-38-3P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRPH (Prophetic); SPN (Synthetic preparation); BIOL (Biological study); USES (Uses); PREP (Preparation)
(preparation of heterocyclic compds. as fungicides and their fungicidal mixts. for controlling plant fungal diseases)

RN 1014615-38-3 CAPLUS

CN 3H-1,2,4-Triazole-3,5(4H)-dione, 4-[(5R)-3-[2-[1-[2-[5-bromo-3-(trifluoromethyl)-1H-pyrazol-1-yl]acetyl]-4-piperidinyl]-4-oxazolyl]-4,5-dihydro-5-isoxazolyl]- (CA INDEX NAME)

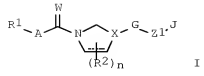
Absolute stereochemistry.



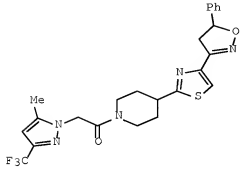
L6 ANSWER 13 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2009:701284 CAPLUS Full-text
DN 150:554519
TI Heterocyclic compounds as fungicides and their preparation and fungicidal mixtures
IN Gregory, Vann; Pasteris, Robert James
PA E. I. Du Pont De Nemours and Company, USA
SO PCT Int. Appl., 498pp.
CODEN: PIXXD2
DT Patent
LA English

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2009055514 A2		20090430	WO 2008-XG80850	20081023
	W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR				
	RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IS, IT, LU, MC, ML, MR, MT, NE, NL, NO, PT, SE, SN, TD, TG, TR				

PRAI US 2007-2P 20071023
US 2008-62400P 20080125
GI



I



II

AB Disclosed is a fungicidal composition comprising of at least one compound selected from the compds. of formula I N-oxides, and salts thereof, and at least one addnl. fungicidal compound Also disclosed is a method for controlling plant diseases caused by fungal plant pathogens comprising applying to the plant or portion thereof, or to the plant seed, a fungicidally effective amount of the aforesaid composition Also disclosed is a composition comprising component of aforesaid composition and at least one insecticide. Compds. of formula I wherein dashed bond is single or double bond; R1 is (un)substituted Ph, naphthyl and 5- tO 6-membered heteroaryl; A is CHR15 and NH and derivs.; R15 is H, halo, CN, OH, CHO. C1-4 alkyl, SH, amino, C1-6 hydroxyalkyl, etc.; W is O and S; X is aminoalkyl, alkyl, alkenyl, etc.; each R2 is halo, CN, OH, C1-4 alkyl, etc.; G is (un)substituted 5-membered heteroaryl and 5-membered (un)saturated heterocycle; J is (un)substituted 5- to 7- membered ring, (un)substituted 8- to 11-membered bicyclic ring and (un)substituted 7- to 11-membered spirocycle; n is 0, 1, and 2; Z1 is a bond, CO, S, SO, SO2, NH and derivs., CH2, etc.; and N-oxides and salts thereof are claimed. Example compound II was prepared by cyclization of 1,1-dimethylethyl 4-(4-formyl-2-thiazolyl)-1-piperidinecarboxylate with styrene; the resulting 1,1-dimethylethyl 4-[4-(4,5-dihydro-5-phenylisoxazol-3-yl)-2- thiazolyl]-1-piperidinecarboxylate underwent deprotection to give 4-[4-(4,5-dihydro-5-phenylisoxazol-3-yl)-2-thiazolyl]-1-piperidine, which underwent acetylation with 5-methyl-3-(trifluoromethyl)-1H-pyrazole-1- acetic acid to give compound II. All the example compds. in combination with other fungicides were evaluated for their fungicidal activity (some data given). [This abstract record is one of 16 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

IT 1014618-26-8P

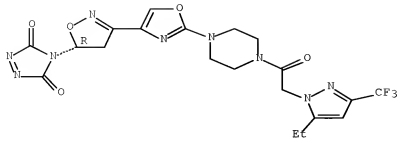
RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRPH (Prophetic); SPN (Synthetic preparation); BIOL (Biological study); USES (Uses); PREP (Preparation)

(preparation of heterocyclic compds. as fungicides and their fungicidal mixts. for controlling plant fungal diseases)

RN 1014618-26-8 CAPLUS

CN 3H-1,2,4-Triazole-3,5(4H)-dione, 4-[(5R)-3-[2-[4-[2-[5-ethyl-3-(trifluoromethyl)-1H-pyrazol-1-yl]acetyl]-1-piperazinyl]-4-oxazolyl]-4,5-dihydro-5-isoxazolyl]- (CA INDEX NAME)

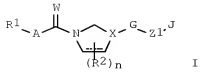
Absolute stereochemistry.



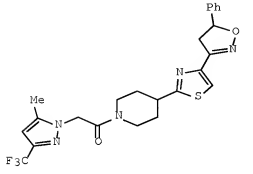
L6 ANSWER 14 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2009:701283 CAPLUS Full-text
DN 150:554518
TI Heterocyclic compounds as fungicides and their preparation and fungicidal mixtures
IN Gregory, Vann; Pasteris, Robert James
PA E. I. Du Pont De Nemours and Company, USA
SO PCT Int. Appl., 498pp.
CODEN: PIXXD2
DT Patent
LA English

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2009055514 A2		20090430	WO 2008-XF80850	20081023
	W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR				
	RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IS, IT, LU, MC, ML, MR, MT, NE, NL, NO, PT, SE, SN, TD, TG, TR				

PRAI US 2007-2P 20071023
US 2008-62400P 20080125
GI



I



II

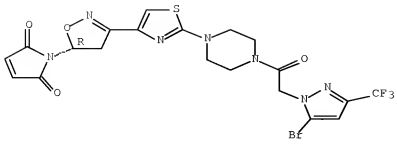
AB Disclosed is a fungicidal composition comprising of at least one compound selected from the compds. of formula I N-oxides, and salts thereof, and at least one addnl. fungicidal compound Also disclosed is a method for controlling plant diseases caused by fungal plant pathogens comprising applying to the plant or portion thereof, or to the plant seed, a fungicidally effective amount of the aforesaid composition Also disclosed is a composition comprising component of aforesaid composition and at least one insecticide. Compds. of formula I wherein dashed bond is single or double bond; R1 is (un)substituted Ph, naphthyl and 5- t0 6-membered heteroaryl; A is CHR15 and NH and derivs.; R15 is H, halo, CN, OH, CHO. C1-4 alkyl, SH, amino, C1-6 hydroxyalkyl, etc.; W is O and S; X is aminoalkyl, alkyl, alkenyl, etc.; each R2 is halo, CN, OH, C1-4 alkyl, etc.; G is (un)substituted 5-membered heteroaryl and 5-membered (un)saturated heterocycle; J is (un)substituted 5- to 7- membered ring, (un)substituted 8- to 11-membered bicyclic ring and (un)substituted 7- to 11-membered spirocycle; n is 0, 1, and 2; Z1 is a bond, CO, S, SO, SO2, NH and derivs., CH2, etc.; and N-oxides and salts thereof are claimed. Example compound II was prepared by cyclization of 1,1-dimethylethyl 4-(4-formyl-2-thiazolyl)-1-piperidinecarboxylate with styrene; the resulting 1,1-dimethylethyl 4-[4-(4,5-dihydro-5-phenylisoxazol-3-yl)-2- thiazolyl]-1-piperidinecarboxylate underwent deprotection to give 4-[4-(4,5-dihydro-5-phenylisoxazol-3-yl)-2-thiazolyl]-1-piperidine, which underwent acetylation with 5-methyl-3-(trifluoromethyl)-1H-pyrazole-1- acetic acid to give compound II. All the example compds. in combination with other fungicides were evaluated for their fungicidal activity (some data given). [This abstract record is one of 16 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

IT 1014614-80-2P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRPH (Prophetic); SPN (Synthetic preparation); BIOL (Biological study); USES (Uses); PREP (Preparation)
(preparation of heterocyclic compds. as fungicides and their fungicidal mixts. for controlling plant fungal diseases)

RN 1014614-80-2 CAPLUS

CN 1H-Pyrrole-2,5-dione, 1-[(5R)-3-[2-[4-[2-[5-bromo-3-(trifluoromethyl)-1H-pyrazol-1-yl]acetyl]-1-piperazinyl]-4-thiazolyl]-4,5-dihydro-5-isoxazolyl]- (CA INDEX NAME)

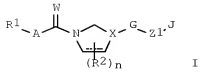
Absolute stereochemistry.



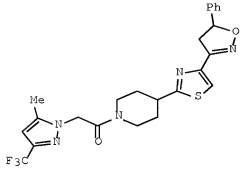
L6 ANSWER 15 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2009:701282 CAPLUS Full-text
DN 150:554517
TI Heterocyclic compounds as fungicides and their preparation and fungicidal mixtures
IN Gregory, Vann; Pasteris, Robert James
PA E. I. Du Pont De Nemours and Company, USA
SO PCT Int. Appl., 498pp.
CODEN: PIXXD2
DT Patent
LA English

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2009055514 A2		20090430	WO 2008-XE80850	20081023
	W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR				
	RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IS, IT, LU, MC, ML, MR, MT, NE, NL, NO, PT, SE, SN, TD, TG, TR				

PRAI US 2007-2P 20071023
US 2008-62400P 20080125
GI



I



II

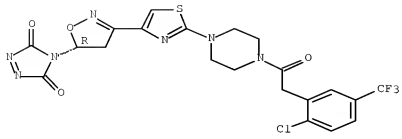
AB Disclosed is a fungicidal composition comprising of at least one compound selected from the compds. of formula I N-oxides, and salts thereof, and at least one addnl. fungicidal compound Also disclosed is a method for controlling plant diseases caused by fungal plant pathogens comprising applying to the plant or portion thereof, or to the plant seed, a fungicidally effective amount of the aforesaid composition Also disclosed is a composition comprising component of aforesaid composition and at least one insecticide. Compds. of formula I wherein dashed bond is single or double bond; R1 is (un)substituted Ph, naphthyl and 5- tO 6-membered heteroaryl; A is CHR15 and NH and derivs.; R15 is H, halo, CN, OH, CHO. C1-4 alkyl, SH, amino, C1-6 hydroxyalkyl, etc.; W is O and S; X is aminoalkyl, alkyl, alkenyl, etc.; each R2 is halo, CN, OH, C1-4 alkyl, etc.; G is (un)substituted 5-membered heteroaryl and 5-membered (un)saturated heterocycle; J is (un)substituted 5- to 7- membered ring, (un)substituted 8- to 11-membered bicyclic ring and (un)substituted 7- to 11-membered spirocycle; n is 0, 1, and 2; Z1 is a bond, CO, S, SO, SO2, NH and derivs., CH2, etc.; and N-oxides and salts thereof are claimed. Example compound II was prepared by cyclization of 1,1-dimethylethyl 4-(4-formyl-2-thiazolyl)-1-piperidinecarboxylate with styrene; the resulting 1,1-dimethylethyl 4-[4-(4,5-dihydro-5-phenylisoxazol-3-yl)-2- thiazolyl]-1-piperidinecarboxylate underwent deprotection to give 4-[4-(4,5-dihydro-5-phenylisoxazol-3-yl)-2-thiazolyl]-1-piperidine, which underwent acetylation with 5-methyl-3-(trifluoromethyl)-1H-pyrazole-1- acetic acid to give compound II. All the example compds. in combination with other fungicides were evaluated for their fungicidal activity (some data given). [This abstract record is one of 16 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

IT 1014708-11-2P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRPH (Prophetic); SPN (Synthetic preparation); BIOL (Biological study); USES (Uses); PREP (Preparation)
(preparation of heterocyclic compds. as fungicides and their fungicidal mixts. for controlling plant fungal diseases)

RN 1014708-11-2 CAPLUS

CN 3H-1,2,4-Triazole-3,5(4H)-dione, 4-[(5R)-3-[2-[4-[2-[2-chloro-5-(trifluoromethyl)phenyl]acetyl]-1-piperazinyl]-4-thiazolyl]-4,5-dihydro-5-isoxazolyl]- (CA INDEX NAME)

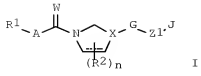
Absolute stereochemistry.



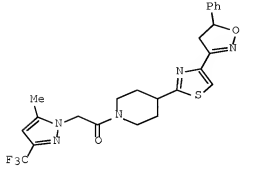
L6 ANSWER 16 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2009:701184 CAPLUS Full-text
DN 150:554516
TI Heterocyclic compounds as fungicides and their preparation and fungicidal mixtures
IN Gregory, Vann; Pasteris, Robert James
PA E. I. Du Pont De Nemours and Company, USA
SO PCT Int. Appl., 498pp.
CODEN: PIXXD2
DT Patent
LA English

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2009055514 A2		20090430	WO 2008-XD80850	20081023
	W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR				
	RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IS, IT, LU, MC, ML, MR, MT, NE, NL, NO, PT, SE, SN, TD, TG, TR				

PRAI US 2007-2P 20071023
US 2008-62400P 20080125
GI



I



II

AB Disclosed is a fungicidal composition comprising of at least one compound selected from the compds. of formula I N-oxides, and salts thereof, and at least one addnl. fungicidal compound Also disclosed is a method for controlling plant diseases caused by fungal plant pathogens comprising applying to the plant or portion thereof, or to the plant seed, a fungicidally effective amount of the aforesaid composition Also disclosed is a composition comprising component of aforesaid composition and at least one insecticide. Compds. of formula I wherein dashed bond is single or double bond; R1 is (un)substituted Ph, naphthyl and 5- tO 6-membered heteroaryl; A is CHR15 and NH and derivs.; R15 is H, halo, CN, OH, CHO. C1-4 alkyl, SH, amino, C1-6 hydroxyalkyl, etc.; W is O and S; X is aminoalkyl, alkyl, alkenyl, etc.; each R2 is halo, CN, OH, C1-4 alkyl, etc.; G is (un)substituted 5-membered heteroaryl and 5-membered (un)saturated heterocycle; J is (un)substituted 5- to 7- membered ring, (un)substituted 8- to 11-membered bicyclic ring and (un)substituted 7- to 11-membered spirocycle; n is 0, 1, and 2; Z1 is a bond, CO, S, SO, SO2, NH and derivs., CH2, etc.; and N-oxides and salts thereof are claimed. Example compound II was prepared by cyclization of 1,1-dimethylethyl 4-(4-formyl-2-thiazolyl)-1-piperidinecarboxylate with styrene; the resulting 1,1-dimethylethyl 4-[4-(4,5-dihydro-5-phenylisoxazol-3-yl)-2- thiazolyl]-1-piperidinecarboxylate underwent deprotection to give 4-[4-(4,5-dihydro-5-phenylisoxazol-3-yl)-2-thiazolyl]-1-piperidine, which underwent acetylation with 5-methyl-3-(trifluoromethyl)-1H-pyrazole-1- acetic acid to give compound II. All the example compds. in combination with other fungicides were evaluated for their fungicidal activity (some data given). [This abstract record is one of 16 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

IT 1151983-60-6P

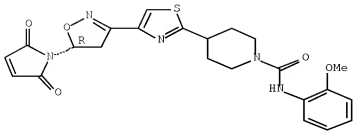
RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRPH (Prophetic); SPN (Synthetic preparation); BIOL (Biological study); USES (Uses); PREP (Preparation)

(preparation of heterocyclic compds. as fungicides and their fungicidal mixts. for controlling plant fungal diseases)

RN 1151983-60-6 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

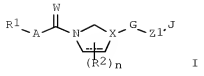


L6 ANSWER 17 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2009:701183 CAPLUS Full-text
DN 150:554515
TI Heterocyclic compounds as fungicides and their preparation and fungicidal mixtures
IN Gregory, Vann; Pasteris, Robert James
PA E. I. Du Pont De Nemours and Company, USA
SO PCT Int. Appl., 498pp.
CODEN: PIXXD2
DT Patent
LA English

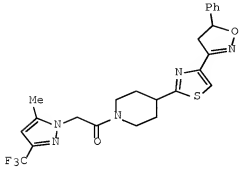
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2009055514 A2		20090430	WO 2008-XC80850	20081023

W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IS, IT, LU, MC, ML, MR, MT, NE, NL, NO, PT, SE, SN, TD, TG, TR

PRAI US 2007-2P 20071023
US 2008-62400P 20080125
GI



I



II

AB Disclosed is a fungicidal composition comprising of at least one compound selected from the compds. of formula I N-oxides, and salts thereof, and at least one addnl. fungicidal compound Also disclosed is a method for controlling plant diseases caused by fungal plant pathogens comprising applying to the plant or portion thereof, or to the plant seed, a fungicidally effective amount of the aforesaid composition Also disclosed is a composition comprising component of aforesaid composition and at least one insecticide. Compds. of formula I wherein dashed bond is single or double bond; R1 is (un)substituted Ph, naphthyl and 5- tO 6-membered heteroaryl; A is CHR15 and NH and derivs.; R15 is H, halo, CN, OH, CHO. C1-4 alkyl, SH, amino, C1-6 hydroxyalkyl, etc.; W is O and S; X is aminoalkyl, alkyl, alkenyl, etc.; each R2 is halo, CN, OH, C1-4 alkyl, etc.; G is (un)substituted 5-membered heteroaryl and 5-membered (un)saturated heterocycle; J is (un)substituted 5- to 7- membered ring, (un)substituted 8- to 11-membered bicyclic ring and (un)substituted 7- to 11-membered spirocycle; n is 0, 1, and 2; Z1 is a bond, CO, S, SO, SO2, NH and derivs., CH2, etc.; and N-oxides and salts thereof are claimed. Example compound II was prepared by cyclization of 1,1-dimethylethyl 4-(4-formyl-2-thiazolyl)-1-piperidinecarboxylate with styrene; the resulting 1,1-dimethylethyl 4-[4-(4,5-dihydro-5-phenylisoxazol-3-yl)-2- thiazolyl]-1-piperidinecarboxylate underwent deprotection to give 4-[4-(4,5-dihydro-5-phenylisoxazol-3-yl)-2-thiazolyl]-1-piperidine, which underwent acetylation with 5-methyl-3-(trifluoromethyl)-1H-pyrazole-1- acetic acid to give compound II. All the example compds. in combination with other fungicides were evaluated for their fungicidal activity (some data given). [This abstract record is one of 16 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

IT 1151983-62-8P

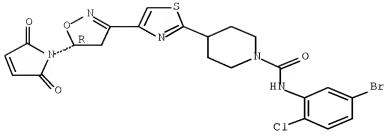
RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRPH (Prophetic); SPN (Synthetic preparation); BIOL (Biological study); USES (Uses); PREP (Preparation)

(preparation of heterocyclic compds. as fungicides and their fungicidal mixts. for controlling plant fungal diseases)

RN 1151983-62-8 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

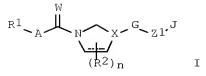


L6 ANSWER 18 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2009:701182 CAPLUS Full-text
DN 150:554514
TI Heterocyclic compounds as fungicides and their preparation and fungicidal mixtures
IN Gregory, Vann; Pasteris, Robert James
PA E. I. Du Pont De Nemours and Company, USA
SO PCT Int. Appl., 498pp.
CODEN: PIXXD2
DT Patent
LA English

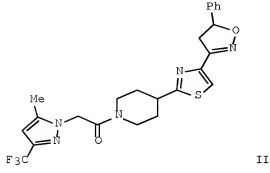
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2009055514 A2		20090430	WO 2008-XB80850	20081023

W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IS, IT, LU, MC, ML, MR, MT, NE, NL, NO, PT, SE, SN, TD, TG, TR

PRAI US 2007-2P 20071023
US 2008-62400P 20080125
GI



I



II

AB Disclosed is a fungicidal composition comprising of at least one compound selected from the compds. of formula I N-oxides, and salts thereof, and at least one addnl. fungicidal compound Also disclosed is a method for controlling plant diseases caused by fungal plant pathogens comprising applying to the plant or portion thereof, or to the plant seed, a fungicidally effective amount of the aforesaid composition Also disclosed is a composition comprising component of aforesaid composition and at least one insecticide. Compds. of formula I wherein dashed bond is single or double bond; R1 is (un)substituted Ph, naphthyl and 5- tO 6-membered heteroaryl; A is CHR15 and NH and derivs.; R15 is H, halo, CN, OH, CHO. C1-4 alkyl, SH, amino, C1-6 hydroxyalkyl, etc.; W is O and S; X is aminoalkyl, alkyl, alkenyl, etc.; each R2 is halo, CN, OH, C1-4 alkyl, etc.; G is (un)substituted 5-membered heteroaryl and 5-membered (un)saturated heterocycle; J is (un)substituted 5- to 7- membered ring, (un)substituted 8- to 11-membered bicyclic ring and (un)substituted 7- to 11-membered spirocycle; n is 0, 1, and 2; Z1 is a bond, CO, S, SO, SO2, NH and derivs., CH2, etc.; and N-oxides and salts thereof are claimed. Example compound II was prepared by cyclization of 1,1-dimethylethyl 4-(4-formyl-2-thiazolyl)-1-piperidinecarboxylate with styrene; the resulting 1,1-dimethylethyl 4-[4-(4,5-dihydro-5-phenylisoxazol-3-yl)-2- thiazolyl]-1-piperidinecarboxylate underwent deprotection to give 4-[4-(4,5-dihydro-5-phenylisoxazol-3-yl)-2-thiazolyl]-1-piperidine, which underwent acetylation with 5-methyl-3-(trifluoromethyl)-1H-pyrazole-1- acetic acid to give compound II. All the example compds. in combination with other fungicides were evaluated for their fungicidal activity (some data given). [This abstract record is one of 16 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

IT 1151983-61-7P

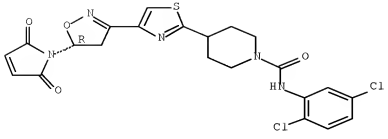
RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRPH (Prophetic); SPN (Synthetic preparation); BIOL (Biological study); USES (Uses); PREP (Preparation)

(preparation of heterocyclic compds. as fungicides and their fungicidal mixts. for controlling plant fungal diseases)

RN 1151983-61-7 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

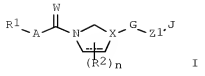


L6 ANSWER 19 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2009:690682 CAPLUS Full-text
DN 150:529951
TI Heterocyclic compounds as fungicides and their preparation and fungicidal mixtures
IN Gregory, Vann; Pasteris, Robert James
PA E. I. Du Pont De Nemours and Company, USA
SO PCT Int. Appl., 498pp.
CODEN: PIXXD2
DT Patent
LA English

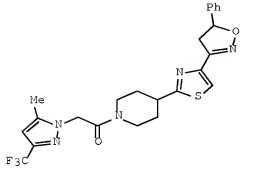
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2009055514 A2		20090430	WO 2008-XA80850	20081023

W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IS, IT, LU, MC, ML, MR, MT, NE, NL, NO, PT, SE, SN, TD, TG, TR

PRAI US 2007-2P 20071023
US 2008-62400P 20080125
GI



I



II

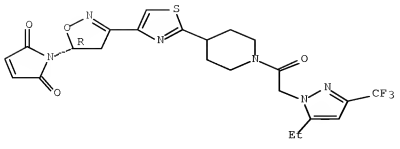
AB Disclosed is a fungicidal composition comprising of at least one compound selected from the compds. of formula I N-oxides, and salts thereof, and at least one addnl. fungicidal compound Also disclosed is a method for controlling plant diseases caused by fungal plant pathogens comprising applying to the plant or portion thereof, or to the plant seed, a fungicidally effective amount of the aforesaid composition Also disclosed is a composition comprising component of aforesaid composition and at least one insecticide. Compds. of formula I wherein dashed bond is single or double bond; R1 is (un)substituted Ph, naphthyl and 5- tO 6-membered heteroaryl; A is CHR15 and NH and derivs.; R15 is H, halo, CN, OH, CHO. C1-4 alkyl, SH, amino, C1-6 hydroxyalkyl, etc.; W is O and S; X is aminoalkyl, alkyl, alkenyl, etc.; each R2 is halo, CN, OH, C1-4 alkyl, etc.; G is (un)substituted 5-membered heteroaryl and 5-membered (un)saturated heterocycle; J is (un)substituted 5- to 7- membered ring, (un)substituted 8- to 11-membered bicyclic ring and (un)substituted 7- to 11-membered spirocycle; n is 0, 1, and 2; Z1 is a bond, CO, S, SO, SO2, NH and derivs., CH2, etc.; and N-oxides and salts thereof are claimed. Example compound II was prepared by cyclization of 1,1-dimethylethyl 4-(4-formyl-2-thiazolyl)-1-piperidinecarboxylate with styrene; the resulting 1,1-dimethylethyl 4-[4-(4,5-dihydro-5-phenylisoxazol-3-yl)-2- thiazolyl]-1-piperidinecarboxylate underwent deprotection to give 4-[4-(4,5-dihydro-5-phenylisoxazol-3-yl)-2-thiazolyl]-1-piperidine, which underwent acetylation with 5-methyl-3-(trifluoromethyl)-1H-pyrazole-1- acetic acid to give compound II. All the example compds. in combination with other fungicides were evaluated for their fungicidal activity (some data given). [This abstract record is one of 16 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

IT 1014616-54-6P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRPH (Prophetic); SPN (Synthetic preparation); BIOL (Biological study); USES (Uses); PREP (Preparation)
(preparation of heterocyclic compds. as fungicides and their fungicidal mixts. for controlling plant fungal diseases)

RN 1014616-54-6 CAPLUS

CN 1H-Pyrrole-2,5-dione, 1-[(5R)-3-[2-[1-[2-[5-ethyl-3-(trifluoromethyl)-1H-pyrazol-1-yl]acetyl]-4-piperidinyl]-4-thiazolyl]-4,5-dihydro-5-isoxazolyl]- (CA INDEX NAME)

Absolute stereochemistry.



L6 ANSWER 20 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2009:552835 CAPLUS Full-text
DN 150:515149
TI Biarylcarboxmides as P2X3 receptor antagonists for treatment of pain and their preparation
IN Burgey, Christopher S.; Nguyen, Diem N.; Paone, Daniel V.; Potteiger, Craig M.; Vacca, Joseph P.
PA Merck & Co., Inc., USA
SO PCT Int. Appl., 121pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2009058299	A1	20090507	WO 2008-US12271	20081029
	W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRAI	US 2007-1375P	P	20071031		
	US 2008-132178P	P	20080616		

OS MARPAT 150:515149
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The subject invention relates to compds. of formula I as P2X3 receptor antagonists that play a critical role in treating disease states associated with pain, in particular peripheral pain, inflammatory pain, or tissue injury pain that can be treated using a P2X3 receptor subunit modulator. Compound of formula I wherein X and Y are independently N and CR1; A is (un)substituted 5-membered heteroaryl ring; R1 is H, C1-6 alkyl, halo, (CH2)0-4-CF3, C3-10 cycloalkyl, CN; R2 is H and C1-6 alkyl; R3 is CR2R4R5; NR2R3 taken together to

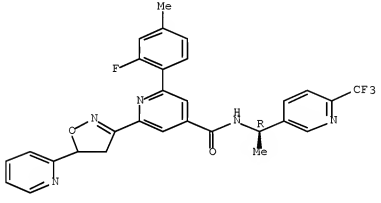
form (un)substituted C5-10 heterocyclyl; R4 and R5 are independently H, (CH2)0-4-OR2, CHF2, (CH2)0-4-C5-10 heterocyclyl, etc.; and pharmaceutically acceptable salts, enantiomers and diastereoisomers thereof, are claimed. Example compound II was prepared by amidation of 3(5-methylpyridin-3-yl)-5-[(5S)-5-pyridin-2-yl-4,5- dihydroisoxazol-3-yl]benzoic acid with (1R)-[6-trifluoromethylpyridin-3-yl]ethanamine hydrochloride. All the invention compds. were evaluated for their P2X3 receptor antagonistic activity. From the assay, it was determined that compound II exhibited IC50 value of 10 nM.

IT 1149750-13-9P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(drug candidate; preparation of biarylcarboxamides as P2X3 receptor antagonists useful in the treatment of pain)

RN 1149750-13-9 CAPLUS

CN 4-Pyridinecarboxamide, 2-[4,5-dihydro-5-(2-pyridinyl)-3-isoxazolyl]-6-(2-fluoro-4-methylphenyl)-N-[(1R)-1-[6-(trifluoromethyl)-3-pyridinyl]ethyl]- (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 21 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2009:519929 CAPLUS Full-text
DN 150:494853
TI Heterocyclic compounds as fungicides and their preparation and fungicidal mixtures
IN Gregory, Vann; Pasteris, Robert James
PA E. I. Du Pont De Nemours and Company, USA
SO PCT Int. Appl., 498pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2009055514	A2	20090430	WO 2008-US80850	20081023
W: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD,				

ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

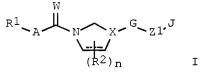
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRAI US 2007-2P P 20071023

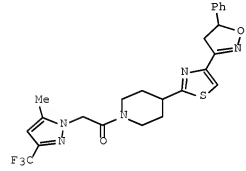
US 2008-62400P P 20080125

OS MARPAT 150:494853

GI



I



II

AB Disclosed is a fungicidal composition comprising of at least one compound selected from the compds. of formula I N-oxides, and salts thereof, and at least one addnl. fungicidal compound Also disclosed is a method for controlling plant diseases caused by fungal plant pathogens comprising applying to the plant or portion thereof, or to the plant seed, a fungicidally effective amount of the aforesaid composition Also disclosed is a composition comprising component of aforesaid composition and at least one insecticide. Compds. of formula I wherein dashed bond is single or double bond; R1 is (un)substituted Ph, naphthyl and 5- t0 6-membered heteroaryl; A is CHR15 and NH and derivs.; R15 is H, halo, CN, OH, CHO. C1-4 alkyl, SH, amino, C1-6 hydroxyalkyl, etc.; W is O and S; X is aminoalkyl, alkyl, alkenyl, etc.; each R2 is halo, CN, OH, C1-4 alkyl, etc.; G is (un)substituted 5-membered heteroaryl and 5-membered (un)saturated heterocycle; J is (un)substituted 5- to 7- membered ring, (un)substituted 8- to 11-membered bicyclic ring and (un)substituted 7- to 11-membered spirocycle; n is 0, 1, and 2; Z1 is a bond, CO, S, SO, SO2, NH and derivs., CH2, etc.; and N-oxides and salts thereof are claimed. Example compound II was prepared by cyclization of 1,1-dimethylethyl 4-(4-formyl-2-thiazolyl)-1-piperidinecarboxylate with styrene; the resulting 1,1-dimethylethyl 4-[4-(4,5-dihydro-5-phenylisoxazol-3-yl)-2- thiazolyl]-1-piperidinecarboxylate underwent deprotection to give 4-[4-(4,5-dihydro-5-phenylisoxazol-3-yl)-2-thiazolyl]-1-piperidine, which underwent acetylation with 5-methyl-3-(trifluoromethyl)-1H-pyrazole-1- acetic acid to give compound II. All the example compds. in combination with other fungicides were evaluated for their fungicidal activity (some data given). [This abstract record is one of 16 records for this document necessitated by the large number

of index entries required to fully index the document and publication system constraints.]

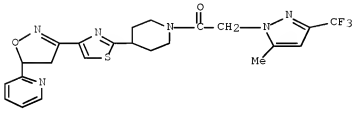
IT 1003317-49-4P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of heterocyclic compds. as fungicides and their fungicidal mixts. for controlling plant fungal diseases)

RN 1003317-49-4 CAPLUS

CN Ethanone, 1-[4-[4-[4,5-dihydro-5-(2-pyridinyl)-3-isoxazolyl]-2-thiazolyl]-1-piperidinyl]-2-[5-methyl-3-(trifluoromethyl)-1H-pyrazol-1-yl]- (CA INDEX NAME)



L6 ANSWER 22 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2009:98222 CAPLUS Full-text

DN 151:220951

TI Synthesis of some pyridine, thiopyrimidine, and isoxazoline derivatives based on the pyrrole moiety

AU Radwan, Mohamed A. A.; Abbas, Eman M. H.

CS Applied Organic Chemistry Department, National Research Centre, Dokki, Cairo, Egypt

SO Monatshefte fuer Chemie (2009), 140(2), 229-233
CODEN: MOCMB7; ISSN: 0026-9247

PB SpringerWienNewYork

DT Journal

LA English

AB Condensation of 2-acetylpyrrole with 5-methylfuran-2-carboxaldehyde and 4-chlorobenzaldehyde in 20% NaOH give the corresponding 2-chalconylpyrroles. Some new 2-alkoxy-3-cyano-4,6-diarylpyridines were synthesized by condensation of chalcones with malononitrile, followed by cyclization in sodium alkoxide. The reactivity of chalcones towards nitrogen nucleophiles such as thiourea and hydroxylamine hydrochloride to provide thiopyrimidines and isoxazolines was investigated. Graphical Abstract

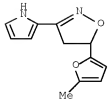
IT 1174916-20-1P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of pyridine, thiopyrimidine, and isoxazoline derivs. based on the pyrrole moiety)

RN 1174916-20-1 CAPLUS

CN Isoxazole, 4,5-dihydro-5-(5-methyl-2-furanyl)-3-(1H-pyrrol-2-yl)- (CA INDEX NAME)

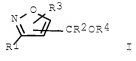


RE.CNT 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 23 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2008:1481515 CAPLUS Full-text
DN 150:16695
TI Synergistic fungicidal mixtures containing isoxazoles
IN Renner, Jens; Ulmschneider, Sarah; Dietz, Jochen; Haden, Egon
PA BASF SE, Germany
SO PCT Int. Appl., 88pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2008148859	A2	20081211	WO 2008-EP57027	20080605
	WO 2008148859	A3	20090917		
	W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW		
	RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA		
PRAI	EP 2007-109681	A	20070606		

OS MARPAT 150:16695
GI



I

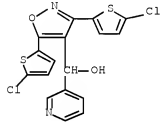
AB Synergistic fungicidal mixts. comprise (1) a fungicidal compound I (R1 = alkyl, alkoxyalkyl, haloalkyl, arylalkyl, aryl, heteroaryl; R2 = alkyl, alkoxyalkyl, haloalkyl, arylalkyl, aryl, heteroaryl, 5-pyrimidinyl, thiazolyl; R3 = H, alkyl, alkoxyalkyl, haloalkyl, arylalkyl, aryloxyalkyl, arylthioalkyl, aryl, heteroaryl, alkylsilyl; R4 = H, acyl, haloacyl, alkoxycarbonyl, aryloxycarbonyl, alkylaminocarbonyl, dialkylaminocarbonyl) or a salt thereof

and (2) a fungicidal compound selected from azoles, strobilurins, carboxamides, heterocylic compds., carbamates, and other active compds. in synergistically effective amts. Thus, 3-(4-chlorophenyl)-5-(4-fluorophenyl)-4-[(3- pyridyl)hydroxymethyl]isoxazole + pyraclostrobin at 1 + 0.016 ppm showed synergistic activity against rice blast (Pyricularia oryzae) in a microtiter plate test.

IT 880084-34-4D, 3-(5-Chloro-2-thienyl)-5-(5-chloro-2-thienyl)-4-[(3-pyridyl)hydroxymethyl]isoxazole, mixts. containing
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(as synergistic fungicides)

RN 880084-34-4 CAPLUS

CN 3-Pyridinemethanol, α-[3,5-bis(5-chloro-2-thienyl)-4-isoxazolyl]- (CA INDEX NAME)



L6 ANSWER 24 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2008:1138511 CAPLUS Full-text

DN 149:524566

TI Discovery and optimization of substituted piperidines as potent, selective, CNS-penetrant α4β2 nicotinic acetylcholine receptor potentiators

AU Albrecht, Brian K.; Berry, Virginia; Boezio, Alessandro A.; Cao, Lei; Clarkin, Kristie; Guo, Wenhong; Harmange, Jean-Christophe; Hierl, Markus; Huang, Liyue; Janosky, Brett; Knop, Johannes; Malmberg, Annika; McDermott, Jeff S.; Nguyen, Hung Q.; Springer, Stephanie K.; Waldon, Daniel; Woodin, Katrina; McDonough, Stefan I.

CS Department of Medicinal Chemistry, Amgen Inc., Cambridge, MA, USA

SO Bioorganic & Medicinal Chemistry Letters (2008), 18(19), 5209-5212
CODEN: BMCLE8; ISSN: 0960-894X

PB Elsevier Ltd.

DT Journal

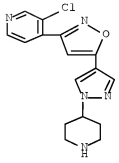
LA English

OS CASREACT 149:524566

AB The discovery of a series of small mol. α4β2 nAChR potentiators is reported. The structure-activity relationship leads to potent compds. selective against nAChRs including α3β2 and α3β4 and optimized for CNS penetrance. Compds. increased currents through recombinant α4β2 nAChRs, yet did not compete for binding with the orthosteric ligand cytisine. High potency and efficacy on the rat channel combined with good PK properties will allow testing of the α4β2 potentiator mechanism in animal models of disease.

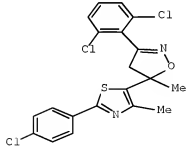
IT 1076223-93-2P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(Discovery and optimization of substituted piperidines as potent, selective, CNS-penetrant α4β2 nicotinic acetylcholine

receptor potentiators)
RN 1076223-93-2 CAPLUS
CN Pyridine, 3-chloro-4-[5-[1-(4-piperidinyl)-1H-pyrazol-4-yl]-3-isoxazolyl]- (CA INDEX NAME)



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 25 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2008:634957 CAPLUS Full-text
DN 149:79528
TI Synthesis of 5-(Thiazol-5-yl)-4,5-dihydroisoxazoles from 3-Chloropentane-2,4-dione
AU Milinkevich, Kristin A.; Ye, Long; Kurth, Mark J.
CS Department of Chemistry, University of California, Davis, CA, 95616, USA
SO Journal of Combinatorial Chemistry (2008), 10(4), 521-525
CODEN: JCCHFF; ISSN: 1520-4766
PB American Chemical Society
DT Journal
LA English
OS CASREACT 149:79528
GI



I

AB Condensation of 3-chloropentane-2,4-dione with thioamides gives 1-(thiazol-5-yl)ethanones and subsequent Wittig olefination, followed by nitrile oxide 1,3-dipolar cycloaddn. to the resulting prop-1-en-2-yl moiety, delivers racemic 5-(thiazol-5-yl)-4,5-dihydroisoxazoles, e.g. I. When this thiazole and isoxazoline diheterocyclic scaffold has a carboethoxy substituent at C2 of the

thiazole ring, aminolysis provides for effective diversification. A 50-member library of various 5-(thiazol-5-yl)-4,5-dihydroisoxazoles is reported.

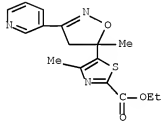
IT 1034058-06-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of 5-(thiazol-5-yl)-4,5-dihydroisoxazoles by cyclocondensation of 3-chloropentane-2,4-dione with thioamides and subsequent Wittig olefination followed by nitrile oxide 1,3-dipolar cycloaddn. and aminolysis)

RN 1034058-06-4 CAPLUS

CN 2-Thiazolecarboxylic acid, 5-[4,5-dihydro-5-methyl-3-(3-pyridinyl)-5-isoxazolyl]-4-methyl-, ethyl ester (CA INDEX NAME)



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

RE.CNT 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 26 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2008:487093 CAPLUS Full-text

DN 148:419520

TI Fungicidal azocyclic amides

IN Pasteris, Robert James; Hanagan, Mary Ann; Shapiro, Rafael

PA E. I. du Pont de Nemours and Company, USA

SO PCT Int. Appl., 298 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2008013925	A2	20080131	WO 2007-XA16875	20070727
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	WO 2008013622	A2	20080131	WO 2007-US14647	20070622
	WO 2008013622	A3	20080327		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI,				

GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

PRAI US 2006-833824P P 20060727
US 2007-897173P P 20070124
WO 2007-US14647 A 20070622

AB Disclosed are azocyclic amides, including geometric and stereoisomers, N-oxides, and salts thereof, compns. containing such compds., and methods for controlling plant diseases caused by fungal pathogens by applying an effective amount of such a compound or composition Thus, spraying tomato seedlings with a suspension 4-[4-(4,5-dihydro-5-phenyl-3-isoxazolyl)-2-thiazolyl]-1- [[5-methyl-3-(trifluoromethyl)-1H-pyrazol-1-yl]acetyl]piperidine at a rate equivalent to 500 g/ha provided 100% control of late blight disease caused by Phytophthora infestans. [This abstract record is one of 2 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.].

IT 1014991-92-4P

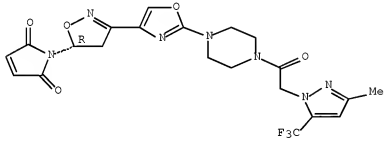
RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRPH (Prophetic); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(azocyclic amides and their use as fungicides for controlling plant diseases)

RN 1014991-92-4 CAPLUS

CN 1H-Pyrrole-2,5-dione, 1-[(5R)-4,5-dihydro-3-[2-[4-[2-[3-methyl-5-(trifluoromethyl)-1H-pyrazol-1-yl]acetyl]-1-piperazinyl]-4-oxazolyl]-5-isoxazolyl]- (CA INDEX NAME)

Absolute stereochemistry.



L6 ANSWER 27 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2008:484502 CAPLUS Full-text

DN 148:396134

TI Fungicidal azocyclic amides

IN Pasteris, Robert James; Hanagan, Mary Ann; Shapiro, Rafael

PA E. I. du Pont de Nemours and Company, USA

SO PCT Int. Appl., 294 pp.

CODEN: PIXXD2

DT Patent

LA English
FAN.CNT 4

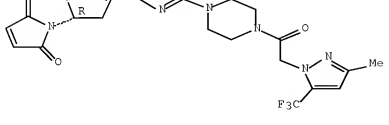
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2008013622	A2	20080131	WO 2007-XA14647	20070622
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
PRAI	US 2006-833824P	P	20060727		
	US 2007-897173P	P	20070124		

AB Disclosed are azocyclic amides including geometric and stereoisomers, N oxides, and salts thereof. Also claimed are compns. containing certain of these compds. and methods for controlling plant disease caused by a fungal pathogen by applying an effective amount of a compound or a composition of the invention. Thus, 4-[4-(4,5-dihydro-5-phenyl-3-isoxazolyl)-2-thiazolyl]-1-[[5-methyl-3-(trifluoromethyl)-1H-pyrazol-1-yl]acetyl]piperidine (prepared) at a rate equivalent to 500 g/ha provided 100% disease control of downy mildew on grape seedlings inoculated with a spore suspension of Plasmopara viticola. [This abstract record is one of 2 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.].

IT 1014991-92-4P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRPH (Prophetic); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(azocyclic amides and their use as fungicides for controlling plant diseases)

RN 1014991-92-4 CAPLUS
CN 1H-Pyrrole-2,5-dione, 1-[(5R)-4,5-dihydro-3-[2-[4-[2-[3-methyl-5-(trifluoromethyl)-1H-pyrazol-1-yl]acetyl]-1-piperazinyl]-4-oxazolyl]-5-isoxazolyl]- (CA INDEX NAME)

Absolute stereochemistry.



L6 ANSWER 28 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2008:122192 CAPLUS Full-text
DN 148:185136

TI Fungicidal azocyclic amides
IN Pasteris, Robert James; Hanagan, Mary Ann; Shapiro, Rafael
PA E. I. du Pont de Nemours and Company, USA
SO PCT Int. Appl., 298 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2008013925	A2	20080131	WO 2007-US16875	20070727
	WO 2008013925	A3	20080403		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA			
	WO 2008013622	A2	20080131	WO 2007-US14647	20070622
	WO 2008013622	A3	20080327		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA			
	AU 2007277157	A1	20080131	AU 2007-277157	20070727
	CA 2653640	A1	20080131	CA 2007-2653640	20070727
	EP 2049111	A2	20090422	EP 2007-836278	20070727
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS				
	IN 2008DN09900	A	20090327	IN 2008-DN9900	20081127
	US 20090156592	A1	20090618	US 2008-303256	20081203
	MX 2009000920	A	20090204	MX 2009-920	20090123
	KR 2009033496	A	20090403	KR 2009-704083	20090226
PRAI	US 2006-833824P	P	20060727		
	US 2007-897173P	P	20070124		
	WO 2007-US14647	A	20070622		
	WO 2007-US16875	W	20070727		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OS MARPAT 148:185136
AB Disclosed are azocyclic amides, including geometric and stereoisomers, N-oxides, and salts thereof, compns. containing such compds., and methods for controlling plant diseases caused by fungal pathogens by applying an effective amount of such a compound or composition Thus, spraying tomato seedlings with a suspension 4-[4-(4,5-dihydro-5-phenyl-3-isoxazolyl)-2-thiazolyl]-1- [[5-methyl-3-(trifluoromethyl)-1H-pyrazol-1-yl]acetyl]piperidine at a rate

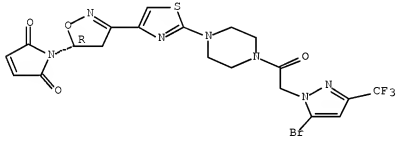
equivalent to 500 g/ha provided 100% control of late blight disease caused by Phytophthora infestans. [This abstract record is one of 2 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

IT 1014614-80-2P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRPH (Prophetic); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(as fungicide for controlling plant diseases)

RN 1014614-80-2 CAPLUS

CN 1H-Pyrrole-2,5-dione, 1-[(5R)-3-[2-[4-[2-[5-bromo-3-(trifluoromethyl)-1H-pyrazol-1-yl]acetyl]-1-piperazinyl]-4-thiazolyl]-4,5-dihydro-5-isoxazolyl]- (CA INDEX NAME)

Absolute stereochemistry.



L6 ANSWER 29 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2008:122190 CAPLUS Full-text

DN 148:185135

TI Fungicidal azocyclic amides

IN Pasteris, Robert James; Hanagan, Mary Ann; Shapiro, Rafael

PA E. I. du Pont de Nemours and Company, USA

SO PCT Int. Appl., 294 pp.
CODEN: PIXXD2

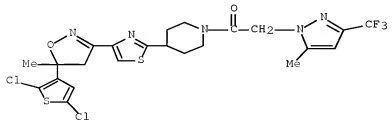
DT Patent

LA English

FAN.CNT 2

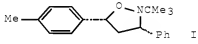
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2008013622	A2	20080131	WO 2007-US14647	20070622
	WO 2008013622	A3	20080327		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA			
	AU 2007277157	A1	20080131	AU 2007-277157	20070727
	CA 2653640	A1	20080131	CA 2007-2653640	20070727
	WO 2008013925	A2	20080131	WO 2007-US16875	20070727

WO 2008013925 A3 20080403
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA
EP 2049111 A2 20090422 EP 2007-836278 20070727
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS
MX 2009000920 A 20090204 MX 2009-920 20090123
KR 2009033496 A 20090403 KR 2009-704083 20090226
PRAI US 2006-833824P P 20060727
US 2007-897173P P 20070124
WO 2007-US14647 A 20070622
WO 2007-US16875 W 20070727
OS MARPAT 148:185135
AB Disclosed are azocyclic amides including geometric and stereoisomers, N oxides, and salts thereof. Also claimed are compns. containing certain of these compds. and methods for controlling plant disease caused by a fungal pathogen by applying an effective amount of a compound or a composition of the invention. Thus, 4-[4-(4,5-dihydro-5-phenyl-3-isoxazolyl)-2-thiazolyl]-1-[[5-methyl-3-(trifluoromethyl)-1H-pyrazol-1-yl]acetyl]piperidine (prepared) at a rate equivalent to 500 g/ha provided 100% disease control of downy mildew on grape seedlings inoculated with a spore suspension of Plasmopara viticola. [This abstract record is one of 2 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]
IT 1003317-88-1
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(as fungicide for controlling plant diseases)
RN 1003317-88-1 CAPLUS
CN Ethanone, 1-[4-[4-[5-(2,5-dichloro-3-thienyl)-4,5-dihydro-5-methyl-3-isoxazolyl]-2-thiazolyl]-1-piperidinyl]-2-[5-methyl-3-(trifluoromethyl)-1H-pyrazol-1-yl]- (CA INDEX NAME)



L6 ANSWER 30 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2007:1368076 CAPLUS Full-text

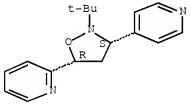
DN 148:144684
TI Synthesis of new 3,5-diarylisoxazolidines by cycloaddition of oxaziridines and alkenes
AU Fabio, Marilena; Ronzini, Ludovico; Troisi, Luigino
CS Dipartimento di Scienze e Tecnologie Biologiche ed Ambientali, University of Lecce, Lecce, 73100, Italy
SO Tetrahedron (2007), 63(52), 12896-12902
CODEN: TETRAB; ISSN: 0040-4020
PB Elsevier Ltd.
DT Journal
LA English
OS CASREACT 148:144684
GI



I

AB This article reports a novel process of cycloaddn. of C-aryloxaziridines with a variety of arylalkenes to afford stable, five-membered heterocycles, e.g., I. The steric hindrance of the tert-Bu group on the nitrogen atom of the oxaziridine is responsible for the high stereoselectivity of the cycloaddn. reaction.
IT 1001387-07-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(3,5-diarylisoxazolidines via stereoselective cycloaddn. of aryloxaziridines with arylalkenes)
RN 1001387-07-0 CAPLUS
CN Pyridine, 2-[(3R,5S)-2-(1,1-dimethylethyl)-3-(4-pyridinyl)-5-isoxazolidinyl]-, rel- (CA INDEX NAME)

Relative stereochemistry.



OSC.G 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)
RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 31 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2007:1061197 CAPLUS Full-text
DN 147:385984
TI Imidazolidinedione derivatives and their preparation, pharmaceutical compositions, and use for the treatment of inflammatory disorders
IN Yu, Wensheng; Tong, Ling; Chen, Lei; Kozlowski, Joseph A.; Lavey, Brian J.; Shih, Neng-Yang; Madison, Vincent S.; Zhou, Guowei; Orth, Peter; Guo, Zhuyan; Wong, Michael K. C.; Yang, De-Yi; Kim, Seong Heon; Shankar,

Bandarpalle B.; Siddiqui, M. Arshad; Rosner, Kristin E.; Dai, Chaoyang; Popovici-Muller, Janeta; Girijavallabhan, Vinay M.; Li, Dansu; Rizvi, Razia; Micula, Aneta M.; Feltz, Robert

PA Schering Corporation, USA

SO U.S. Pat. Appl. Publ., 430pp., Cont.-in-part of U.S. Ser. No. 333,663. CODEN: USXXCO

DT Patent

LA English

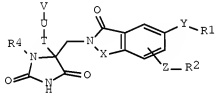
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20070219218	A1	20070920	US 2007-653676	20070116
	US 7488745	B2	20090210		
	US 20060205797	A1	20060914	US 2005-180863	20050713
	US 7482370	B2	20090127		
	US 20060276506	A1	20061207	US 2006-333663	20060117
	US 7504424	B2	20090317		
	US 20090137586	A1	20090528	US 2008-338445	20081218
PRAI	US 2004-588502P	P	20040716		
	US 2005-180863	A2	20050713		
	US 2006-333663	A2	20060117		
	US 2007-653676	A3	20070116		

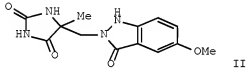
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 147:385984

GI



I



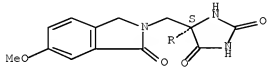
II

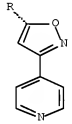
AB This invention relates to imidazolidinedione derivs. I [X = S, (un)substituted CH2 or NH; T = H, alkyl, aryl, etc.; U = absent, a bond, O, etc.; V = absent, alkyl, aryl, etc.; Y, Z = absent, a bond, O, etc.; R1, R2 = H, halo, alkyl, etc.; R4 = H, alkyl, cycloalkyl, etc.] or a pharmaceutically acceptable salt, solvate, ester or isomer thereof, which can be useful for the treatment of diseases or conditions mediated by MMPs, ADAMs, TACE, aggrecanase, TNF- or combinations thereof. Thus, amidation of 5-methoxy-2-nitrobenzoic acid with 5-(aminomethyl)-5-methylimidazolidine-2,4-dione followed by reduction and cyclization of the resulting N-(2,4-dioxo-5-methylimidazolidin-5-ylmethyl) 5-methoxy-2-nitrobenzamide afforded the title compound II. The invention compds. I were evaluated for their antiinflammatory activity. For example, II exhibited Ki value in the range of 100 to 1000 nM.

IT 950174-22-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of substituted imidazolidinediones for treatment and prevention
of inflammatory disorders)
RN 950174-22-8 CAPLUS
CN 2,4-Imidazolidinedione, 5-[(1,3-dihydro-6-methoxy-1-oxo-2H-isoindol-2-yl)methyl]-5-[3-(4-pyridinyl)-5-isoxazolyl]-, (5S)- (CA INDEX NAME)

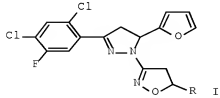
Absolute stereochemistry.





OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L6 ANSWER 32 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2007:827455 CAPLUS Full-text
DN 148:379529
TI Synthesis and antibacterial studies of some novel isoxazoline derivatives
AU Shah, Tejaskumar; Desai, Vikas
CS Department of Chemistry, B. K. M. Science College, Valsad, 396001, India
SO Journal of the Serbian Chemical Society (2007), 72(5), 443-449
CODEN: JSCSEN; ISSN: 0352-5139
PB Serbian Chemical Society
DT Journal
LA English
OS CASREACT 148:379529
GI



I

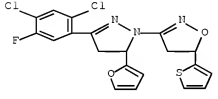
AB Pyrazolinylisoxazolines I (R = 2-thienyl, substituted phenyl) were prepared starting from 2',4'-dichloro-5'-fluoroacetophenone and furfural. The products

were screened for in vitro antibacterial activity using gram-pos. and gram-neg. bacteria.

IT 1014127-49-1P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and antibacterial activity of [(dichlorofluorophenyl)-2-furanylpyrazolinyl]isoxazolines)

RN 1014127-49-1 CAPLUS

CN Isoxazole, 3-[3-(2,4-dichloro-5-fluorophenyl)-5-(2-furanyl)-4,5-dihydro-1H-pyrazol-1-yl]-4,5-dihydro-5-(2-thienyl)- (CA INDEX NAME)



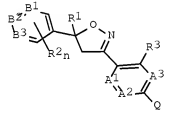
OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 33 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2007:730867 CAPLUS Full-text
DN 147:111908
TI Preparation of 5-arylisoxazolines as insecticides and acaricides
IN Lahm, George Philip; Patel, Kanu Maganbhai; Pahutski, Thomas Francis, Jr.; Smith, Benjamin Kenneth
PA E. I. du Pont de Nemours and Company, USA
SO PCT Int. Appl., 127 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2007075459	A2	20070705	WO 2006-US47999	20061215
	WO 2007075459	A3	20080131		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
	AU 2006329856	A1	20070705	AU 2006-329856	20061215
	CA 2626839	A1	20070705	CA 2006-2626839	20061215
	EP 1966195	A2	20080910	EP 2006-839406	20061215
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS				

JP 2009519953	T	20090521	JP 2008-545857	20061215
US 20090133319	A1	20090528	US 2008-83944	20080421
IN 2008DN03407	A	20080815	IN 2008-DN3407	20080424
MX 2008007634	A	20080701	MX 2008-7634	20080612
CN 101331127	A	20081224	CN 2006-80047429	20080616
KR 2008080189	A	20080902	KR 2008-717188	20080715
PRAI US 2005-751226P	P	20051216		
US 2005-752511P	P	20051221		
US 2006-849037P	P	20061003		
WO 2006-US47999	W	20061215		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OS CASREACT 147:111908; MARPAT 147:111908
GI



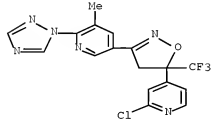
I

AB The 5-arylisoxazolines I [A1, A2, A3 = CR3 or N; B1, B2, B3 = CR2 or N; Q = (un)substituted Ph or 5- or 6-membered saturated or unsatd. heterocyclyl; R1 = (un)substituted (cyclo)alkyl, alkenyl, alkynyl, alkylcycloalkyl or cycloalkylalkyl; R2 = H, halo, CN, NO2, (halo)alkyl, (halo)alkoxy, etc.; R3 = H, halo, CN, NO2, (un)substituted NH2, C(O)NH2, C(S)NH2, CO2H, (halo)alkyl, etc.; n =1 or 2], its isomers, N-oxides and salts, are prepared as insecticides and acaricides.

IT 1045407-99-5
RL: PRPH (Prophetic)
(Preparation of 5-arylisoxazolines as insecticides and acaricides)

RN 1045407-99-5 CAPLUS

CN Pyridine, 5-[5-(2-chloro-4-pyridinyl)-4,5-dihydro-5-(trifluoromethyl)-3-isoxazolyl]-3-methyl-2-(1H-1,2,4-triazol-1-yl)- (CA INDEX NAME)



OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

L6 ANSWER 34 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2007:33450 CAPLUS Full-text
DN 146:142662
TI Preparation of piperidinyl azoles as G-protein coupled receptor (GPR119)

agonists.

IN Bradley, Stuart Edward; Dawson, Graham John; Fyfe, Matthew Colin Thor; Bertram, Lisa Sarah; Gattrell, William; Jeevaratnam, Revathy Perpetua; Keily, John; Mistry, Neela Sumit; Procter, Martin James; Rasamison, Chrystelle Marie; Rushworth, Philip John; Sambrook-Smith, Colin Peter; Stonehouse, David French

PA Prosidion Limited, UK

SO PCT Int. Appl., 80pp.
CODEN: PIXXD2

DT Patent

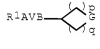
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2007003960	A1	20070111	WO 2006-GB50176	20060629
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	EP 1907383	A1	20080409	EP 2006-744356	20060629
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS				
	JP 2008545007	T	20081211	JP 2008-520006	20060629
	IN 2007KN05037	A	20090102	IN 2007-KN5037	20071226
	CN 101287729	A	20081015	CN 2006-80032110	20080229
PRAI	GB 2005-13257	A	20050630		
	GB 2006-5539	A	20060320		
	WO 2006-GB50176	W	20060629		

OS MARPAT 146:142662

GI



I

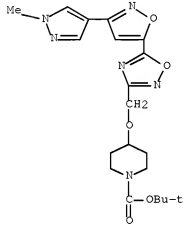
AB Title compds. [I; V = (alkyl-substituted) 5-membered heteroaryl; A = CH:CH, (CH2)n; B = CH:CH, (CH2)n, where 1 CH2 group may be replaced by O, NR5, CO, SOm, CO2, etc.; m = 0-2; n = 0-3; p = 0-3; p = 1-5; p+q = 2-5; G = CHR12, NR2; R1 = (substituted) Ph, 5-6 membered heteroaryl; R2 = CO2R3, SO2R3, COR3, (substituted) heterocyclyl, heteroaryl, etc.; R3 = (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, aryl, heterocyclyl, heteroaryl, etc.; R5 = H, alkyl; R12 = alkyl], were prepared Thus, tert-Bu 4-(N-hydroxycarbamimidoylmethoxy)piperidine-1-carboxylate (preparation given) and KOCMe3 in Me2SO were sonicated followed by addition of Me 3-cyano-4-methoxybenzoate and stirring for 15 h at 60° to give tert-Bu 4-[5-(3-cyano-4-methoxyphenyl)-1,2,4-oxadiazol-3- ylmethoxy]piperidine-1-carboxylate.

Representative I increased insulin secretion from HIT-T15 cells with EC50 <10 μM.

IT 918965-87-4P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of piperidinyl azoles as G-protein coupled receptor (GPR119) agonists)

RN 918965-87-4 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[[5-[3-(1-methyl-1H-pyrazol-4-yl)-5-isoxazolyl]-1,2,4-oxadiazol-3-yl]methoxy]-, 1,1-dimethylethyl ester (CA INDEX NAME)

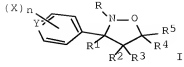


OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)
RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

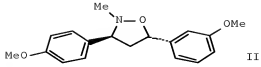
L6 ANSWER 35 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2006:707591 CAPLUS Full-text
DN 145:211028
TI Preparation of aryl-substituted isoxazolidines as agrochemical fungicides
IN Cheng, Chunsheng; Li, Zhinian; Zhang, Baoyan; Li, Tao; Zhang, Hong
PA Shenyang Research Institute of Chemical Industry, Peop. Rep. China
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 12 pp.
CODEN: CNXXEV
DT Patent
LA Chinese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1690050	A	20051102	CN 2004-10020467	20040427
PRAI	CN 2004-10020467		20040427		

OS CASREACT 145:211028; MARPAT 145:211028
GI



I



II

AB The title aryl-substituted isoxazolidines I [wherein X = H, halo, cyano, nitro, alkoxy, alkyl, or haloalkyl; n = 1-5; Y = CH or N; R = (cyclo)alkyl, alkenyl, alkynyl, aryl, etc.; R1 = H, alkyl, alkenyl, alkynyl, etc.; R2, R3 and R5 = independently H, (cyclo)alkyl, alkoxy, etc.; R4 = aryl; with provisos], or geometrical, optical isomers, or argrochem. acceptable salts thereof were prepared as fungicides. For example, C-(4-methoxyphenyl)-N-methylnitrone (preparation given) was reacted with 3-methoxystyrene in toluene to give II (75%). II showed 90-100% fungicidal activity against cucumber mildew.

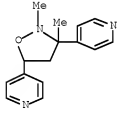
IT 904668-49-1P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of aryl-substituted isoxazolidines as agrochem. fungicides)

RN 904668-49-1 CAPLUS

CN Pyridine, 4,4'-(2,3-dimethyl-3,5-isoxazolidinediyl)bis- (CA INDEX NAME)



L6 ANSWER 36 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2006:269517 CAPLUS Full-text

DN 144:312077

TI Preparation of substituted isoxazoles as fungicides

IN Lee, Shy-Fuh; Gliedt, Micah

PA Cropsolution, Inc., USA

SO PCT Int. Appl., 56 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2006031631	A1	20060323	WO 2005-US32080	20050909

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU,

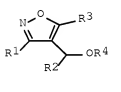
ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

US	20060073971	A1	20060406	US 2005-221670	20050908
US	7338967	B2	20080304		
AU	2005285130	A1	20060323	AU 2005-285130	20050909
CA	2579199	A1	20060323	CA 2005-2579199	20050909
EP	1794167	A1	20070613	EP 2005-796586	20050909
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR					
CN	101061125	A	20071024	CN 2005-80037941	20050909
JP	2008512482	T	20080424	JP 2007-531348	20050909
BR	2005015108	A	20080701	BR 2005-15108	20050909
IN	2007DN01722	A	20070803	IN 2007-DN1722	20070305
ZA	2007002045	A	20080827	ZA 2007-2045	20070308
MX	2007002929	A	20070816	MX 2007-2929	20070309
KR	2007058599	A	20070608	KR 2007-708114	20070410
US	20080096843	A1	20080424	US 2007-574892	20070820
US	20080167350	A1	20080710	US 2008-41058	20080303
PRAI US	2004-608589P	P	20040910		
US	2004-616017P	P	20041005		
US	2005-221670	A1	20050908		
WO	2005-US32080	W	20050909		

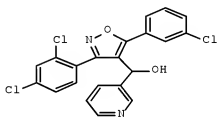
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 144:312077

GI



I



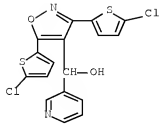
II

AB Title compds. represented by the formula I [wherein R1 = (alkoxy)alkyl, haloalkyl, (un)substituted heteroaryl, etc.; R2 = (halo)alkyl, (un)substituted arylalkyl, aryl, etc.; R3 = H, (halo)alkyl, (un)substituted aryl, etc.; R4 = H, (halo)acyl, alkoxycarbonyl, aryloxycarbonyl or (di)alkylaminocarbonyl; and their salts thereof] were prepared as fungicides. For example, reaction of 2,4-dichloro-N-hydroxybenzenecarboximidoyl chloride with 1-(3-pyridyl)-3-(3-chlorophenyl)-2-propyn-1-ol gave II. II were tested for fungicidal activity against B. cinerea, P. infestans, S. nodorum and S. tritici, and fungicide turf and cereal trial.

IT 880084-34-4P, 3-(5-Chloro-2-thienyl)-5-(5-chloro-2-thienyl)-4-[(3-pyridyl)hydroxymethyl]isoxazole
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of substituted isoxazole derivs. as fungicides)

RN 880084-34-4 CAPLUS

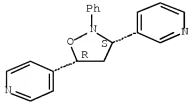
CN 3-Pyridinemethanol, α-[3,5-bis(5-chloro-2-thienyl)-4-isoxazolyl]-
(CA INDEX NAME)



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

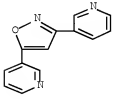
L6 ANSWER 37 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2005:1027301 CAPLUS Full-text
DN 143:439793
TI Investigations on regio- and stereoselectivities in cycloadditions involving α-(3-pyridyl)-N-phenylnitrone: Development of an efficient route to novel nicotine analogs
AU Singh, Gurpinder; Ishar, M. P. S.; Girdhar, Navdeep K.; Singh, Lakhwinder
CS Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar, 143 005, India
SO Journal of Heterocyclic Chemistry (2005), 42(6), 1047-1054
CODEN: JHTCAD; ISSN: 0022-152X
PB HeteroCorporation
DT Journal
LA English
OS CASREACT 143:439793
AB Thermal reactions of hitherto α-(3-pyridyl)-N-phenylnitrone (1) with mono-substituted electron-rich and electron-neutral dipolarophiles are regio-, and stereo-selective (exo-selective), controlled by LUMO - dipole - HOMO-dipolarophile interaction, and furnish syn-5-substituted-3-(3-pyridyl)-isoxazolidines (5) in high yields. With electron deficient dipolarophiles such as acrylonitrile there is observed a loss of regioselectivity as well as stereoselectivity and the regioselectivity is reversed in reactions with Me vinyl ketone and Me acrylate, due to intervention of HOMO-dipole - LUMO-dipolarophile interaction, affording 4-substituted-3-(3-pyridyl)-isoxazolidines (7) as major products. Reactions of nitrone (1) with disubstituted dipolarophiles such as Me methacrylate and Et coronate furnish Me syn-5-methy-3-pyridyl-1-phenyl-isoxazolidine-5-carboxylate (8) and Et anti-5-methy-3-pyridyl-1-phenyl-isoxazolidine-4-carboxylate (10), resp., in high yields. Reaction with N-Phenylmaleimide affords novel isoxazolidino-pyrrolidinediones bearing a 3-pyridyl moiety (11, 12). A mechanistic rationalization of the obtained results in terms of electronic, steric and secondary interactions is proffered.
IT 868694-55-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(regio- and stereoselectivities in cycloaddns. involving α-(3-pyridyl)-N-phenylnitrone)
RN 868694-55-7 CAPLUS
CN Pyridine, 3-[(3R,5S)-2-phenyl-5-(4-pyridinyl)-3-isoxazolidinyl]-, rel-
(CA INDEX NAME)

Relative stereochemistry.



OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)
RE.CNT 70 THERE ARE 70 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 38 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2005:971246 CAPLUS Full-text
DN 143:248341
TI Synthetic pathways to a family of pyridine-containing azoles-promising ligands for coordination chemistry
AU Nuriev, Vyatsheslav N.; Zyk, Nikolay V.; Vatsadze, Sergey Z.
CS Organic Chemistry Chair, Chemistry Department, M. V. Lomonosov Moscow State University, Moscow, 119992, Russia
SO ARKIVOC (Gainesville, FL, United States) (2005), (4), 208-224
CODEN: AGFUAR
URL: http://www.arkat-usa.org/ark/journal/2005/I04_Zefirov/1534/1534.pdf
PB Arkat USA Inc.
DT Journal; (online computer file)
LA English
OS CASREACT 143:248341
AB A series of pyridine-containing pyrazoles, isoxazoles, imidazoles, oxazoles, thiazoles, oxadiazoles, triazoles, and 1,3,4-triazepines were synthesized as potential conjugated building blocks for the construction of coordination compds.
IT 129485-55-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of pyridyl-substituted pyrazoles, isoxazoles, imidazoles, oxazoles, thiazoles, oxadiazoles, triazoles and naphthotriazepines)
RN 129485-55-8 CAPLUS
CN Pyridine, 3,3'-(3,5-isoxazolediyl)bis- (9CI) (CA INDEX NAME)



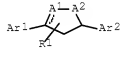
OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
RE.CNT 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 39 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2005:346860 CAPLUS Full-text
DN 142:411346

TI Preparation of azole derivatives as anti-inflammatory compounds
IN Al-Abed, Yousef; Tracey, Kevin J.
PA North Shore-Long Island Jewish Research Institute, USA
SO PCT Int. Appl., 56 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005034952	A2	20050421	WO 2004-US32986	20041007
	WO 2005034952	A3	20050630		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 20070021465	A1	20070125	US 2006-574612	20060715
PRAI	US 2003-560719P	P	20031007		
	US 2003-516027P	P	20031031		
	WO 2004-US32986	W	20041007		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OS CASREACT 142:411346; MARPAT 142:411346
GI



I

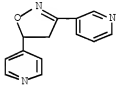
AB Compds. of formula (I) [Ar1, Ar2 = independently a monocyclic six-member optionally substituted heteroaryl; A1 = =N- or -NRa-; A2 = O or S; Ra = H or C1-6 alkyl; R1 = H, C1-6 alkyl, Ph, C1-6 haloalkyl, halogen, OH, ORb, C1-6 hydroxyalkyl, C1-6 alkoxyalkyl, C1-6 haloalkoxy, SH, SRb, NO2, cyano, NRbCO2Rb, NRbC(O)Rb, CO2Rb, C(O)Rb, -C(O)N(Rb)2, -OC(O)Rb, -NRbRb; Rb = H or C1-C6 alkyl] or pharmaceutically acceptable salts thereof are prepared Pharmaceutical compns. comprising compds. of formula I and a method of treating a subject with an inflammatory cytokine-mediated disorder comprising administering to the subject a compound of formula I are also disclosed. Inflammatory cytokine-mediated disorders include peritonitis, pancreatitis, ulcerative colitis, Crohn's disease, asthma, organ ischemia, reperfusion ischemia, sepsis, cachexia, burns, myocardial ischemia, adult respiratory distress syndrome, multiple sclerosis, rheumatoid arthritis, systemic lupus erythematosus, chronic obstructive pulmonary disease, psoriasis, Behcet's syndrome, allograft rejection, and graft-vs.-host disease. Thus, a stirring solution of 3-pyridinecarboxaldehyde oxime (3.00 g, 24.6 mmol) and 4-vinylpyridine (8.0 mL, 75 mmol) in THF (60 mL) was chilled by an ice bath, slowly treated with a 5% solution of NaOCl (95 mL) through an addition funnel, and after removing the ice bath the reaction mixture was allowed to warm to room temperature and quenched with 5% citric acid to give, after workup and

silica gel chromatog., 3-(3-pyridyl)-5-(4-pyridyl)-4,5-dihydroisoxazole (II). II inhibited high-mobility group box-1 (HMGB-1) protein production in LPS-stimulated PAW cells in a dose-dependent manner.

IT 850422-74-1P, 3-(3-Pyridyl)-5-(4-pyridyl)-4,5-dihydroisoxazole
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of azole derivs. as inflammatory cytokine production inhibitors and
anti-inflammatory agents)

RN 850422-74-1 CAPLUS

CN Pyridine, 3-[4,5-dihydro-5-(4-pyridinyl)-3-isoxazolyl]- (CA INDEX NAME)



RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 40 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2005:311613 CAPLUS Full-text

DN 143:1566

TI Cholinergic stimulation blocks endothelial cell activation and leukocyte recruitment during inflammation

AU Saeed, Rubina W.; Varma, Santosh; Peng-Nemeroff, Tina; Sherry, Barbara; Balakhaneh, David; Huston, Jared; Tracey, Kevin J.; Al-Abed, Yousef; Metz, Christine N.

CS Laboratory of Medicinal Biochemistry, Institute for Medical Research at North Shore-LIJ, Manhasset, NY, 11030, USA

SO Journal of Experimental Medicine (2005), 201(7), 1113-1123
CODEN: JEMEAV; ISSN: 0022-1007

PB Rockefeller University Press

DT Journal

LA English

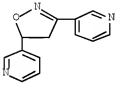
AB Endothelial cell activation plays a critical role in regulating leukocyte recruitment during inflammation and infection. Based on recent studies showing that acetylcholine and other cholinergic mediators suppress the production of proinflammatory cytokines via the α7 nicotinic acetylcholine receptor (α7 nAChR) expressed by macrophages and the authors' observations that human microvascular endothelial cells express the α7 nAChR, the authors examined the effect of cholinergic stimulation on endothelial cell activation in vitro and in vivo. Using the Shwartzman reaction, the authors observed that nicotine (2 mg/kg) and the novel cholinergic agent CAP55 (12 mg/kg) inhibit endothelial cell adhesion mol. expression. Using endothelial cell cultures, the authors observed the direct inhibitory effects of acetylcholine and cholinergic agents on tumor necrosis factor (TNF)-induced endothelial cell activation. Mecamylamine, an nAChR antagonist, reversed the inhibition of endothelial cell activation by both cholinergic agonists, confirming the antiinflammatory role of the nAChR cholinergic pathway. In vitro mechanistic studies revealed that nicotine blocked TNF-induced nuclear factor-κB nuclear entry in an inhibitor κB (IκB)α- and IκBε-dependent manner. Finally, with the carrageenan air pouch model, both vagus nerve stimulation and cholinergic

agonists significantly blocked leukocyte migration in vivo. These findings identify the endothelium, a key regulator of leukocyte trafficking during inflammation, as a target of anti-inflammatory cholinergic mediators.

IT 850422-78-5, CAP 55
RL: BSU (Biological study, unclassified); BIOL (Biological study) (cholinergic agent; cholinergic stimulation blockade of endothelial cell activation and leukocyte recruitment during inflammation and mechanisms thereof)

RN 850422-78-5 CAPLUS

CN Pyridine, 3,3'-(4,5-dihydro-3,5-isoxazolediyl)bis- (CA INDEX NAME)



OSC.G 76 THERE ARE 76 CAPLUS RECORDS THAT CITE THIS RECORD (77 CITINGS)
RE.CNT 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 41 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2005:120903 CAPLUS Full-text
DN 142:219266
TI Preparation of isoxazole derivatives having sulfonamide moiety as MMP inhibitors
IN Watanabe, Fumihiko; Yoshikawa, Naoki; Tamura, Yoshinori
PA Shionogi & Co., Ltd., Japan
SO PCT Int. Appl., 103 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005012268	A1	20050210	WO 2004-JP10697	20040728
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1650199	A1	20060426	EP 2004-748009	20040728
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
	US 20060183770	A1	20060817	US 2006-565948	20060126
PRAI	JP 2003-282354	A	20030730		
	WO 2004-JP10697	W	20040728		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OS MARPAT 142:219266

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

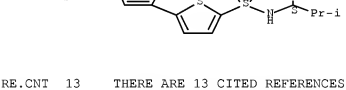
AB Title compds. I [W = II, etc.; R1 = NHOH, OH, alkyloxy; R2, R21 = H, (un)substituted alkyl, etc.; R3 = H, (un)substituted alkyl, etc.; R4 = (un)substituted arylene, etc.; R5 = III ; R6 = (un)substituted aryl] were prepared For example, reaction of compound IV with 4-ethynyltoluene in the presence of N-chlorosuccinimide followed by hydrolysis using NaOH afforded compound V in 64% overall yield. In MMP-12 (matrix metalloprotease-12) enzyme inhibition assays, the IC50 value of compound V was 70.7 nM. Compds. I are claimed useful as MMP inhibitors. Formulations are given.

IT 840533-04-2P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of isoxazole derivs. having sulfonamide moiety as MMP inhibitors)

RN 840533-04-2 CAPLUS

CN L-Valine, N-[[5-[3-(5-methyl-2-thienyl)-5-isoxazolyl]-2-thienyl]sulfonyl]- (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 42 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2004:1080775 CAPLUS Full-text

DN 142:56307

TI Preparation of hydantoin derivatives as inhibitors of tumor necrosis factor-α converting enzyme (tace)

IN Duan, Jingwu; Xue, Chu-Biao; Sheppeck, James; Jiang, Bin; Chen, Lihua

PA Bristol-Myers Squibb Company, USA

SO PCT Int. Appl., 101 pp.
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2004108086	A2	20041216	WO 2004-US17538	20040603
WO 2004108086	A3	20050331		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,

TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

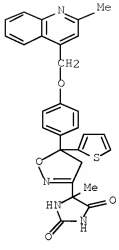
US 20040254231 A1 20041216 US 2004-858978 20040602
US 7132432 B2 20061107
EP 1628974 A2 20060301 EP 2004-776254 20040603
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR
PRAI US 2003-476287P P 20030605
WO 2004-US17538 W 20040603
OS MARPAT 142:56307
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The authors prepared hydantoin derivs. I [R1 = Q, C1-C6 alkylene-Q, (CRaRa1)tNRaSO2NRa(CRaRa1)s-Q, etc.; L = bond, CO, (CR2R3)m, R2 = Q1, C2-C6 alkenylene-Q1, C2-C6 alkynylene-Q1, (CRaRa1)rOC(O)NRa(CRaRa1)s-Q1, etc.; R3 = Q, C1-C6 alkylene-Q, C2-C6 alkenylene-Q, C2-C6 alkynylene-Q, (CRaRa1)rO(CRaRa1)s-Q, etc.; Q = H, CHF2, CH2F, CF3, carbocycle, heterocycle; Q1 = H, carbocycle, heterocycle; Z0 = heterocycle; R11 = W-U-X-Y-Z-Ua-Xa-Ya-Za; W = bond, (CRaRa1)m, C2-C3 alkylene, C2-C3 alkynylene; U = none, O, NRa1, CO, CO2, CONRa1, etc.; X = none, C1-C3 alkylene, C2-C3 alkenylene, C2-C3 alkynylene; Y = none, O, NRa1, S(O)p, CO; Z = C3-C13 carbocycle, heterocycle; Ua = none, O, NRa1, CO, S(O)pNRa1, etc.; Xa = none, C1-C10 alkylene, C2-C10 alkenylene, C2-C10 alkynylene; Ya = none, O, NRa1, S(O)p, CO; Za = C3-C13 carbocycle, heterocycle; Ra = H, C1-C6 alkyl, Ph, PhCH2; Ra1 = H, C1-C6 alkyl, C2-C6 alkenyl, C2-C6 alkylnyl, etc.; R4, R5 = H, C1-C4 alkyl, C2-C4 alkenyl, C2-C4 alkynyl; m = 1-3; p = 0-2; r = 0-4; s = 0-4; t = 1-4] to be used as inhibitors of matrix metalloproteinases (MMP), TNF-α converting enzyme (TACE), and aggrecanase and for treating inflammatory disorders. For example, hydantoin derivative II was prepared starting from 4-HOC6H4CHO and 4-chloromethyl-2-methylquinoline which upon reaction gave aldehyde III. III was reacted with hydroxylamine to give the oxime which added to acrolein to give isoxazolecarbaldehyde IV. IV was then converted to the hydantoin II upon treatment with KCN/(NH4)2CO3/EtOH/H2O.

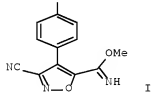
IT 809238-50-4P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of hydantoin derivs. as inhibitors of TNF-α converting enzyme, matrix metalloproteinases, and aggrecanase and for treating inflammatory disorders)

RN 809238-50-4 CAPLUS
CN 2,4-Imidazolidinedione, 5-[4,5-dihydro-5-[4-[(2-methyl-4-quinolinyl)methoxy]phenyl]-5-(2-thienyl)-3-isoxazolyl]-5-methyl- (CA INDEX NAME)

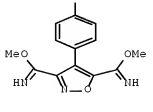


OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)
RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 43 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2004:555896 CAPLUS Full-text
DN 141:243387
TI Reaction of 3,5-dicyanoisoxazoles with nucleophiles
AU Tamura, Mina; Nishimura, Tae; Nishiwaki, Nagatoshi; Ariga, Masahiro
CS Department of Chemistry, Osaka Kyoiku University, Osaka, 582-8582, Japan
SO Heterocycles (2004), 63(7), 1659-1665
CODEN: HTCYAM; ISSN: 0385-5414
PB Japan Institute of Heterocyclic Chemistry
DT Journal
LA English
OS CASREACT 141:243387
GI



I



II

AB Cyano groups on 3,5-dicyanoisoxazole readily caused nucleophilic addition of alcs. (or amines) to give corresponding imidates (or amidines). Dicyanoisoxazoles was also converted to 3,5-bis(imidazolinyl)isoxazoles upon treatment with 1,2-diamines. For example, the addition of methanol to 4-(4-methylphenyl)-3,5-isoxazoledicarbonitrile gave a (cyano)isoxazolecarboximidic acid Me ester (I) (15% yield) and a isoxazoledicarboximidic acid ester (II) (85% yield) at 65°.

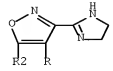
IT 743216-96-4P
RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of bis(imidazolyl)isoxazole by reaction of isoxazoledicarbonitrile with ethanediamine)

RN 749216-96-4 CAPLUS

CN Isoxazole, 3,5-bis(4,5-dihydro-1H-imidazol-2-yl)-4-(4-methylphenyl)- (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

L6 ANSWER 44 OF 44 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2004:177876 CAPLUS Full-text

DN 140:235698

TI Preparation of 4-[4-(4-fluorophenyl)-isoxazol-3-yl]pyridines as immunomodulators

IN Laufer, Stefan; Striegel, Hans-Guenter; Tollmann, Karola; Albrecht, Wolfgang

PA Merckle G.m.b.H. Chem.-Pharm. Fabrik, Germany

SO Ger. Offen., 22 pp.

CODEN: GWXXBX

DT Patent

LA German

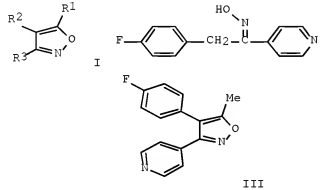
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 10237883	A1	20040304	DE 2002-10237883	20020819
CA 2495964	A1	20040304	CA 2003-2495964	20030819
WO 2004017968	A1	20040304	WO 2003-EP9191	20030819

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2003255463 A1 20040311 AU 2003-255463 20030819
EP 1530468 A1 20050518 EP 2003-792381 20030819
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
US 20060128759 A1 20060615 US 2005-524839 20050913
PRAI DE 2002-10237883 A 20020819
WO 2003-EP9191 W 20030819
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OS MARPAT 140:235698
GI



I II

III

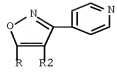
AB Title compds. I [R1 = H, alkyl, aromatic; R2, R3 = aromatic heterocyclic (sic)] and their pharmaceutically acceptable salts were prepared For example, condensation of oxime II, e.g., prepared from 4-fluorophenylacetic acid in 2-steps, and acetic acid Et ester afforded isoxazole III. In p38 MAP kinase inhibition assays, 11-examples of compds. I exhibited IC50 values ranging from 0.4-6.75 x 10-5 M, e.g., the IC50 value of isoxazole III was 6.75 x 10-5 M. Compds. I are claimed to possess immune modulating and/or cytokine release inhibiting effects.

IT 666861-62-7P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of fluorophenylisoxazolpyridines as immunomodulators)

RN 666861-62-7 CAPLUS

CN Pyridine, 4,4'-[4-(4-fluorophenyl)-3,5-isoxazolediyl]bis- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

=> log y
STN INTERNATIONAL LOGOFF AT 14:25:33 ON 06 OCT 2009